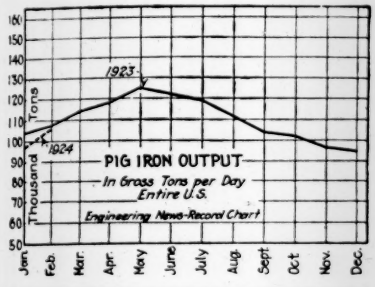
CONSTRUCTION NEWS

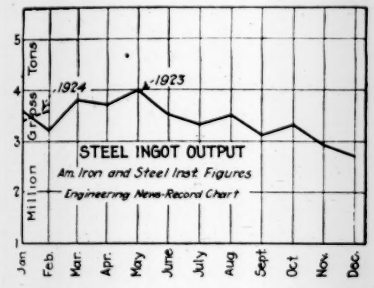
Engineering News-Record, March 27, 1924

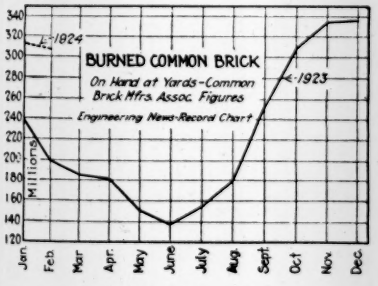
The Construction Barometer

Gain in Private Construction—Production of Basic Materials Slower—No Actual Weakness in Price Situation

THE gain in value of contracts awarded during the last week, as published in *Engineering News-Record*, was due mainly to increased letting of private work. The accompanying table shows the trend during the last three weeks. There was also a substantial gain in private building construction of the commercial type, valued at $150,000 or over. Despite the increasing building demand, production is slowing down as shown by the charts. No actual weakness, however, exists in the present price situation, although buyers are able to obtain price concessions in most of the basic materials.




STEEL INGOT OUTPUT
Am. Iron and Steel Inst. Figures
Engineering News-Record Chart
Million Gross Tons
1923
1924
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.



Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Mar. 6	18,660,000	15,917,000	34,577,000
Mar. 13	18,513,000	13,398,000	31,911,000
Mar. 20	17,126,000	31,125,000	48,251,000
3 Weeks	$54,299,000	$60,440,000	$114,739,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

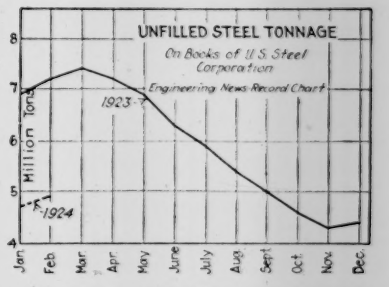
Week Ended	Public No.	Public Work	Private No.	Private Work
Mar. 6	12	5,300,000	36	9,438,000
Mar. 13	10	4,251,000	35	11,575,000
Mar. 20	13	4,152,000	62	24,070,000
3 weeks	35	$13,703,000	133	$45,083,000

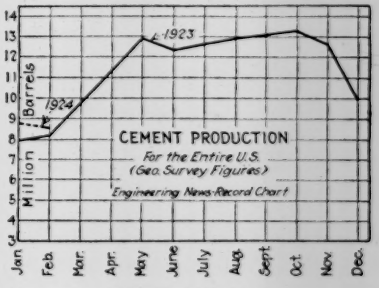
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

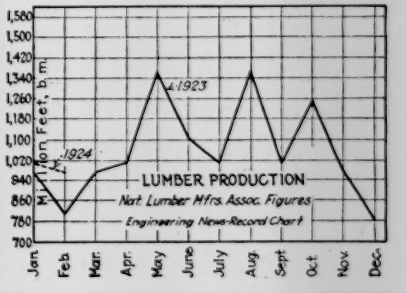
Week Ended	Private All Buildings	Public Streets and Roads	Public Waterworks and Sewers	Public All
Mar. 6	45 70	80	35	229
Mar. 13	41 64	71	40	227
Mar. 20	40 64	81	47	256

NO ACTUAL WEAKNESS IN PRESENT PRICE SITUATION

	Quoted on Mar. 27 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.30 @2.50	$2.40 @2.50	Mar. 13
Cement, Chi. net bbl.	2 20	2.10	Jan. 24
Pine, N. Y. m. ft.	61.00	65.00	Mar. 13
Fir, San Fran., m. ft.	36.00	38.00	Jan. 24
Common labor, hr.	.55	.54	Feb. 28


UNFILLED STEEL TONNAGE
On Books of U.S. Steel Corporation
Engineering News-Record Chart
Million Tons
1923
1924
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.





PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Mar. 28	New York, N. Y.	Mar. 20
Mar. 28	Roseland, N. J.	Mar. 27
Mar. 31	Barberton, O.	Mar. 13
Mar. 31	Chatham, Va.	Mar. 20
Mar. 31	Port Colborne, Ont.	Mar. 20
Mar. 31	Minoqua, Wis.	Mar. 27
Mar. 31	White Fish Bay, Wis.	Mar. 27
Apr. 1	Appleton, Wis.	Mar. 27
Apr. 1	Port Tampa, Fla.	Mar. 27
Apr. 2	Sanitorium, N. C.	Mar. 20
Apr. 2	Dunkirk, N. Y. Adv. Mar. 20 and 27.	Mar. 20
Apr. 2	Cleveland, O.	Mar. 27
Apr. 4	Patton, Pa. Adv. Mar. 20 and 27.	Mar. 20
Apr. 5	Grimsby, Ont.	Mar. 27
Apr. 7	Metropolis, Ill.	Mar. 27
Apr. 9	Port Washington, N. Y. Adv. Mar. 27.	Mar. 27
Apr. 14	Downington, Pa. Adv. Mar. 27.	Mar. 27
Apr. 15	Jamestown, N. Y.	Mar. 27
Apr. 21	Buffalo, N. Y. Adv. Mar. 27.	Mar. 27

SEWERS

Bids Close		See Eng. News-Record
Mar. 28	Sharon, Pa.	Mar. 20
Mar. 31	Detroit, Mich.	Mar. 27
Apr. 1	Toledo, O.	Mar. 6
Apr. 1	Erie, Pa.	Mar. 20
Apr. 1	Upper Darby (branch Phila. P. O.), Pa.	Mar. 27
Apr. 2	Sayreville, N. J.	Mar. 20
Apr. 2	Butte, Mont.	Mar. 20
Apr. 2	Cleveland, O.	Mar. 27
Apr. 3	Cheyenne, Wyo.	Mar. 27
Apr. 5	Pottstown, Pa. Adv. Mar. 13 to 27.	Mar. 13
Apr. 5	Beloit, Wis.	Mar. 27
Apr. 7	Euclid, O.	Mar. 27
Apr. 8	Springfield, Mass.	Mar. 13
Apr. 8	South Bend, Ind. Adv. Mar. 27.	Mar. 27
Apr. 10	Akron, O.	Mar. 27
Apr. 10	South Chicago Heights (Chicago Heights P. O.), Ill. Adv. Mar. 27.	Mar. 27
Apr. 11	Mercer, Pa.	Mar. 27
Apr. 15	Elizabethtown, Pa. Adv. Mar. 20.	Mar. 20
Apr. 15	Grand Rapids, Mich.	Mar. 27
Apr. 15	Marion, O. Adv. Mar. 27.	Mar. 27
Apr. 23	Longmeadow, Mass. Adv. Mar. 27.	Mar. 27

WASTE DISPOSAL

Bids Close		See Eng. News-Record
Apr. 9	East Chester (Grey Court P. O.), N. Y. Adv. Mar. 20 and 27.	Mar. 20

BRIDGES

Bids Close		See Eng. News-Record
Mar. 31	Alabama	Mar. 6
Mar. 31	Vancouver, B. C.	Mar. 13

Bids Close		See Eng. News-Record
Mar. 31	Rochelle Park, N. J. Adv. Mar. 13 and 20.	Mar. 13
Mar 31	Pine Bluff, Ark.	Mar. 20
Apr. 1	Clarksville, Tenn.	Mar. 13
Apr. 1	Pennsylvania	Mar. 13
Apr. 1	Kansas City, Kan.	Mar. 20
Apr. 1	Athens, Ga.	Mar. 27
Apr. 1	Grand Island, Neb.	Mar. 27
Apr. 3	Iola, Kan.	Mar. 20
Apr. 4	Tennessee	Mar. 27
Apr. 7	Alabama	Mar. 13
Apr. 7	Sacramento, Calif.	Mar. 13
Apr. 7	California	Mar. 20
Apr. 7	Chehalis, Wash.	Mar. 20
Apr. 7	Alton, Calif	Mar. 27
Apr. 8	West Virginia	Mar. 13
Apr. 9	Nevada	Mar. 27
Apr. 9	Akron, O.	Mar. 27
Apr. 9	Osborne, Kan.	Mar. 27
Apr. 10	Greenwood, S. C.	Mar. 27
Apr. 11	Le Roy, N. Y.	Mar. 27
Apr. 14	Eufaula, Ala.	Mar. 20
Apr. 15	Chamberlain, S. D.	Mar. 13
Apr. 15	Arkansas	Mar. 27
Apr. 18	Milford, O.	Mar. 27
Apr. 22	East St. Louis, Ill.	Mar. 27
May 1	**Tientsen, North China**	**Oct. 11**

RAILWAYS

Mar. 28	New York	Mar. 20
Apr. 1	Indiana	Jan. 24
Apr. 15	New York Adv. Mar. 20 and 27.	Mar. 20

EXCAVATION, DRAINAGE IRRIGATION

Mar. 31	Olivia, Minn.	Mar. 20
Mar. 31	Emmetsburg, Ia.	Mar. 20
Apr. 3	Buffalo, N. Y.	Mar. 13
Apr. 3	Vicksburg, Miss.	Mar. 27
Apr. 5	Oroville, Calif.	Mar. 27
Apr. 12	Jonesboro, Ark.	Mar. 27
Apr. 15	Rochester, N. Y. Adv. Mar. 20 and 27.	Mar. 20
Apr. 15	New York Adv. Mar. 20 and 27.	Mar. 20
May 6	Minneapolis, Minn.	Mar. 20

STREETS AND ROADS

Mar. 28	New Hampshire	Mar. 20
Mar. 29	Seaforth, Ont.	Mar. 27
Mar. 31	Pennsylvania Adv. Mar. 13 to 27.	Mar. 13
Mar. 31	Escanaba, Mich.	Mar. 13
Mar. 31	Wisconsin	Mar. 20
Mar. 31	St. Paul, Minn	Mar. 20
Mar. 31	Urbana, Ill.	Mar. 27
Mar. 31	Oelwein, Ia.	Mar. 27
Mar. 31	Storm Lake, Ia.	Mar. 27
Mar. 31	Comanche, Okla.	Mar. 27
Mar. 31	Cape Charles, Va.	Mar. 27
Apr. 1	St. Louis, Mo.	Mar. 6
Apr. 1	Lewisburg, W. Va. Adv. Mar. 13 to 27.	Mar. 13
Apr. 1	Pennsylvania Adv. Mar. 13 to 27.	Mar. 13
Apr. 1	Kentucky	Mar. 20
Apr. 1	Rolla, N. D.	Mar. 27
Apr. 1	Columbus, O.	Mar. 27
Apr. 1	Columbus, Ga.	Mar. 27
Apr. 1	Charleston, W. Va.	Mar. 27
Apr. 1	Buffalo, N. Y.	Mar. 27
Apr. 1	Ft. Worth, Tex.	Mar. 27
Apr. 2	Abbeville, La.	Mar. 13
Apr. 2	Ontario	Mar. 13
Apr. 2	Benson, N. C.	Mar. 13
Apr. 2	Mankato, Minn.	Mar. 20
Apr. 2	Michigan	Mar. 20
Apr. 2	Cando, N. D.	Mar. 27
Apr. 2	Chicago, Ill.	Mar. 27
Apr. 2	St. George, N. Y.	Mar. 27
Apr. 2	Cleveland, O.	Mar. 27
Apr. 3	Canton, S. D.	Mar. 13
Apr. 3	Iola, Kan.	Mar. 20
Apr. 3	Brooklyn, N. Y.	Mar. 27
Apr. 3	Ashley, N. D.	Mar. 27
Apr. 3	Louisiana	Mar. 27
Apr. 3	Michigan	Mar. 27
Apr. 3	Tacoma, Wash.	Mar. 27
Apr. 3	Dayton, O.	Mar. 27
Apr. 3	Poughkeepsie, N. Y. Adv. Mar. 27.	Mar. 27
Apr. 3	Milwaukee, Wis.	Mar. 27
Apr. 3	Charleston, W. Va.	Mar. 27
Apr. 3	Italy, Tex.	Mar. 27
Apr. 3	Wyoming	Mar. 27
Apr. 4	Atchinson, Kan.	Mar. 20
Apr. 4	Mantorville, Minn.	Mar. 20
Apr. 4	Cherryville, N. C.	Mar. 20
Apr. 4	Tennessee	Mar. 20
Apr. 4	New York Adv. Mar. 20 and 27.	Mar. 20
Apr. 4	Winchester, Ind.	May 20
Apr. 4	Fond du Lac, Wis.	Mar. 27
Apr. 4	Milwaukee, Wis.	Mar. 27
Apr. 4	Illinois	Mar. 27
Apr. 5	Idaho	Mar. 27
Apr. 5	Hudson, Wis.	Mar. 27
Apr. 5	Denison, Tex.	Mar. 27
Apr. 7	Alabama	Mar. 13
Apr. 7	Pennsylvania Adv. Mar. 20 and 27.	Mar. 20
Apr. 7	Elbow Lake, Minn.	Mar. 20
Apr. 7	White Plains, N. Y. Adv. Mar. 20 and 27.	Mar. 20
Apr. 7	Michigan	Mar. 20
Apr. 7	Princeton, N. J.	Mar. 20
Apr. 7	California	Mar. 20
Apr. 7	New Jersey Adv. Mar. 27.	Mar. 27
Apr. 7	Euclid, O.	Mar. 27
Apr. 8	Summersville, Va.	Mar. 6
Apr. 8	Paterson, N. J.	Mar. 20
Apr. 8	Milton, Fla.	Mar. 20
Apr. 8	Wabash, Ind.	Mar. 20
Apr. 8	Salem, N. J. Adv. Mar. 20 and 27.	Mar. 20
Apr. 8	Pennsylvania Adv. Mar. 20 and 27.	Mar. 20
Apr. 8	Geneva, N. Y. Adv. Mar. 27.	Mar. 27
Apr. 8	Kerrville, Tex.	Mar. 27
Apr. 8	Michigan	Mar. 27
Apr. 8	Breckenridge, Minn.	Mar. 27
Apr. 8	Washington	Mar. 27
Apr. 9	Fargo, N. D.	Mar. 27
Apr. 9	Delaware	Mar. 20
Apr. 9	Freehold, N. J. Adv. Mar. 20 and 27.	Mar. 20
Apr. 9	Fort Myers, Fla.	Mar. 27
Apr. 9	Lisbon, N. D.	Mar. 27
Apr. 9	Decatur, Tex.	Mar. 27
Apr. 9	Michigan	Mar. 27
Apr. 10	Woodbury, N. J. Adv. Mar. 27.	Mar. 27
Apr. 10	Port Gibson, Miss.	Mar. 13
Apr. 10	Michigan	Mar. 27
Apr. 11	Bexley (Columbus P. O.), O.	Mar. 27
Apr. 14	St. Albans, W. Va.	Mar. 20
Apr. 14	New Jersey Adv. Mar. 27.	Mar. 27
Apr. 15	Tonawanda, N. Y. Adv. Mar. 20 and 27.	Mar. 20
Apr. 15	Pottsville, Pa. Adv. Mar. 27.	Mar. 27
Apr. 15	Bay City, Tex.	Mar. 27
Apr. 15	West Virginia Adv. Mar. 27.	Mar. 27
Apr. 15	New Mexico	Mar. 27
Apr. 15	St. James, Minn.	Mar. 27
Apr. 17	West Virginia Adv. Mar. 27.	Mar. 27
Apr. 24	Topeka, Kan.	Mar. 27
Apr. 25	St. Louis, Mo.	Mar. 27
May 1	Duluth, Minn.	Mar. 20

INDUSTRIAL WORKS

Mar. 31	Louisville, Ky.	Mar. 13
Apr. 2	Morris Plains, N. J.	Mar. 13
Apr. 7	Point Grey, B. C.	Mar. 27
Apr. 7	Essondale, B. C.	Mar. 27
Apr. 15	Somerset, Pa.	Mar. 20
Apr. 17	Buffalo, N. Y. Adv. Mar. 20 and 27.	Mar. 27
May 21	Wellington, New Zealand	Jan. 10

BUILDINGS

Mar. 28	North Plainfield (Watchung P. O.), N. J.	Mar. 20
Mar. 31	Wilson, N. C.	Mar. 13
Mar. 31	Columbus, O.	Mar. 20
Mar. 31	Hopkins, Minn.	Mar. 20
Mar. 31	Phila., Pa.	Mar. 27
Mar. 31	Detroit, Mich.	Mar. 27
Apr. 1	Duluth, Minn.	Feb. 7
Apr. 1	Atlantic City, N. J.	Feb. 7
Apr. 1	Brainerd, Minn.	Feb. 28
Apr. 1	Oshkosh, Wis.	Mar. 13
Apr. 1	Akron, O.	Mar. 13
Apr. 1	Emporia, Kan.	Mar. 20
Apr. 1	Memphis, Tenn.	Mar. 20
Apr. 1	Alpena, Mich.	Mar. 27
Apr. 1	Racine, Wis.	Mar. 27
Apr. 1	Canton, N. Y.	Mar. 27
Apr. 3	Paso Robles, Calif.	Mar. 20
Apr. 3	Marshall, Tex.	Mar. 20
Apr. 3	Detroit, Mich.	Mar. 27
Apr. 4	Flint, Mich.	Mar. 27
Apr. 4	Buffalo, N. Y.	Mar. 27
Apr. 4	Dolgeville, N. Y.	Mar. 27
Apr. 5	Lebanon, Ky.	Mar. 20
Apr. 5	Parma (Cleveland P. O.), O.	Mar. 27
Apr. 7	Whitewater, Wis.	Mar. 13
Apr. 8	New York, N. Y.	Mar. 13
Apr. 8	Brooklyn, N. Y.	Mar. 13
Apr. 8	Astoria (Long Island City P. O.), N. Y.	Mar. 13
Apr. 8	Brooklyn, N. Y.	Mar. 20
Apr. 8	Windber, Pa.	Mar. 27
Apr. 8	Minneapolis, Minn.	Mar. 27
Apr. 9	Beatrice, Neb.	Mar. 20
Apr. 9	Buffalo, N. Y.	Mar. 20
Apr. 9	Dunkirk, N. Y.	Mar. 27
Apr. 10	Le Roy, N. Y.	Mar. 27
Apr. 10	Steubenville, O.	Mar. 27
Apr. 15	Somerset, Pa.	Mar. 20
Apr. 15	Woodbury, N. J.	Mar. 27
Apr. 16	Denver, Colo.	Mar. 27
Apr. 19	New Orleans, La.	Mar. 27
May 1	Youngstown, O.	Feb. 7

FEDERAL GOVERNMENT WORK

Mar. 28	Dredging — Providence, R. I.	Feb. 28
Mar. 28	Plumbing System—Wash., D. C.	Mar. 13
Mar. 31	Fuel Oil Pump, etc.—Memphis, Tenn. Adv. Mar. 20 and 27.	Mar. 20
Apr. 1	Pumps, etc.—Tobyhanna, Pa.	Mar. 20
Apr. 2	Roads—Phoenix, Ariz.	Mar. 6
Apr. 4	Post Office—Orange, Tex.	Mar. 13
Apr. 4	Dredging—New York, N. Y.	Mar. 13
Apr. 7	Power Houses—Cincinnati, O. Adv. Mar. 20 and 27.	Mar. 20
Apr. 7	Oil Burning Furnaces — Memphis, Tenn. Adv. Mar. 27.	Mar. 27
Apr. 8	Cement—Louisville, Ky. Adv. Mar. 13 to 27.	Mar. 13
Apr. 12	Dredging — Providence, R. I. Adv. Mar. 13 to 27.	Mar. 13
Apr. 14	Dredging—New York, N. Y.	Mar. 27
Apr. 14	Sewers—Poplar, Mont.	Mar. 27
Apr. 14	Stone—Wilmington, Del.	Mar. 27
Apr. 15	Post Office — Hastings, Mich. Adv. Mar. 20 and 27.	Mar. 20
Apr. 18	Riprap—Detroit, Mich. Adv. Mar. 20 and 27.	Mar. 20
Apr. 19	Excavating—Wilmington, Del. Adv. Mar. 20 and 27.	Mar. 20
Apr. 22	Steel Gates — Florence, Ala. Adv. Mar. 13 to 27.	Mar. 13
Apr. 22	Post Office—Water Valley, Miss. Adv. Mar. 27.	Mar. 27
Apr. 23	Ammunition Depot—Puget Sound, Wash. Adv. Mar. 27.	Mar. 27
Apr. 25	Lock—Fords Ferry, Ky. Adv. Mar. 27.	Mar. 27
Apr. 29	Walls—Fords Ferry, Ky.	Mar. 27

UNCLASSIFIED

Apr. 1	Electric Light Line—North Carolina	Mar. 20
Apr. 1	Electric Light Line—North Carolina	Mar. 27
Apr. 2	Fire Alarm System—New York, N. Y.	Mar. 27
Apr. 2	Fire Alarm System—Phila., Pa.	Mar. 27
Apr. 8	Electric Light System — Phila., Pa. Adv. Mar. 27.	Mar. 27
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13

MATERIAL AND EQUIPMENT

Mar. 28	Bituminous Material—Albany, N. Y. Adv. Mar. 20 and 27.	Mar. 20
Mar. 31	Cast Steel Castings, etc.—St. Louis, Mo.	Mar. 20
Mar. 31	Road Graders—St. Paul, Minn.	Mar. 27
Apr. 1	Pipe—Dallas, Tex.	Mar. 27
Apr. 1	Grader—Huron, S. D.	Mar. 27
Apr. 1	Scrapers, Graders, etc. — Washburn, N. D.	Mar. 27
Apr. 1	Road Oil, etc.—St. Paul, Minn.	Mar. 27
Apr. 2	Road Machines—Grand Forks, N. D.	Mar. 20
Apr. 2	Snow and Street Sweepers — Buffalo, N. Y.	Mar. 27
Apr. 2	Asphaltic Cement, etc. — St. George, N. Y.	Mar. 27
Apr. 3	Stone Crusher—Platteville, Wis.	Mar. 20
Apr. 3	Grader—Devils Lake, N. D.	Mar. 27
Apr 4	Excavator Skimmer—Buffalo, N. Y.	Mar. 27
Apr. 4	Lighting Standards—Cleveland, O.	Mar. 27
Apr. 7	Cement, etc.—Tyler, Tex.	Mar. 27
Apr. 7	Reinforcing Bars and Spirals —Minnesota	Mar. 20
May 15	Turbine — Prince Albert, Sask. Adv. Mar. 20 and 27.	Mar. 27
Apr. 16	Power House Equipment—Tacoma, Wash.	Mar. 13
Apr. 23	Electrical Equipment — Tacoma, Wash. Adv. Mar. 27.	Mar. 27

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Springfield — Bd. Water Comrs. takes bids about Apr. 1, additions to filtration plant, doubling capacity, at Little River, $500,000. Also plans to expend $4,-

Waterworks (Continued)

000,000 for expansion of Little River water supply service, incl. additional storage reservoir, probably additional pipeline from Provin Mountain to southern end of city, also pipe line from new filter works to Provin Mountain. These projects may not be completed for several years and will not be undertaken until filtration project is almost completed. H. M. King, supt.

N. Y., Clinton—Plans extending water supply. $50,000. G. R. Taylor, village pres.

N. Y., Medina—Voted $50,000 bonds, auxiliary waterwork development. C. H. Pettis, village pres. Noted Mar. 13.

N. Y., Munnsville—Voted $37,000 bonds water supply. W. D. Fryer, village pres.

N. Y., Vernon—Voted $28,000 bonds new water system. R. E. Spaulding, village pres.

N. Y., Waverly—Takes bids in April extending water supply. $54,000 bonds voted. E. Van Nostran, village pres.

Fla., Tampa—Election Apr. 22, $100,000 bonds, extending mains. R. D. Martin, city engr. Noted Jan. 3.

Miss., Magnolia — Election Mar. 25, $30,000 bonds waterworks and distribution system.

O., Columbus—See "Streets and Roads."

O., Steubenville—Plans repairing water system, new boilers $50,000, piping and pumping plant $10,000, pumps $25,000, softening plant $20,000, rising main $5,000, modernizing filtration plant $10,000, supply main $30,000, repairs to sedimentation basin $20,000. J. N. Chester, Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.

Ind., Evansville—Takes bids about May 1, centrifugal pump, 15 m.g. capacity. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Ill., Niles Center—Takes bids about Mar. 31, waterworks project. $125,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Paxton—Having preliminary plans prepared waterworks and distribution system, 4- and 6-in. pipe. $30,000.

Wis., Fort Atkinson—Water, Light & Gas Comn. plans 2,000 lin.ft. 6 in. water pipe, 12 kva. statis condenser, one 5 ft. generator and 4 ft. carburetor. $6,000. W. D. Leonard, mgr.

Wis., Madison — Plans c.i. mains and connections in various streets. $69,000. L. A. Smith, supt. Engineer not selected.

Wis., Milwaukee—Had plans prepared 2 mi. 6, 8 and 12 in. c.i. mains in Fernwood Dist. $15,000. J. Schwada, City Hall, engr.

Wis., Racine—Takes bids about May 1, improving waterworks. $150,000. First unit of $10,000,000 project. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Kan., Reserve—Preparing plans waterworks. Shockley Eng. Co., 800 Graphic Art Bldg., Kansas City, Mo., engrs.

Minn., Winona—Plans addition to pump station, air lift equipment and new reservoir. $220,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Neb., Chadron—Plans water purifying plant. $40,000. Engineer will be selected soon.

Neb., Pender—Apr. 1, to vote on $20,000 bonds, piping water into city from spring ½ mi. away.

Mo., Huntsville—Plans to obtain water supply from Moberly, will lay 12 in. mains between 2 cities, also 4, 6 and 8 in. distribution mains, here. To exceed $15,000.

Ark., Mena—Soon takes bids extending 4- and 6-in. c.i. distribution mains, also relaying pipe line connecting pump house with standpipe, etc. $25,000.

Tex., Beaumont—Making plans and takes bids in June 12 m.g. filtration plant, buildings, piping, etc. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

Tex., Dallas—City retained J. C. Nagle and R. A. Thompson, consult. engrs., Dallas, to supervise construction impounding reservoir on Trinity River 26 mi. northwest of here. $5,000,000 bonds recently voted for increasing city water supply. Noted Mar. 20 under "Dams."

Tex., Floydada—Voted $50,000 bonds for sewerage system incl. disposal plant and $10,000 bonds for waterworks improvements. Gantt-Baker Co., 1st Natl. Bank Bldg., Oklahoma City, Okla., engrs. Noted Feb. 28.

Tex., Weatherford—Weatherford Water & Light Co. making plans 4 in. main extensions in east portion town. $25,000. Private plans.

Okla., Cushing — Voted $407,000 bonds new earth dam, pipe line, bank protection, spillways, filter plant, basins, pumping equipment and storage basins. Black & Veatch, Mutual Bldg., Kansas City Mo., engrs. Noted Mar. 13.

Okla., Ramona — Plans election $20,000 bonds waterworks and distribution system.

Ore., Veronia — Sold $60,000 bonds for water system. Engineer not selected.

Calif., Los Angeles—See "Unclassified."

Power Development — Quebec — Quebec Legislature approved additional expenditures for water power development. Additional $500,000 provided for further development of St. Maurice River, making total of $3,000,000. Additional $950,000 provided for development of power at Lake Kenogami, making total of $2,750,000.

Ont., London—Utilities Bd. having plans prepared extending 8 in. mains in Mahaffy subdivision, $35,000. Prices wanted on material and equipment. E. V. Buchanan, Hydro Office Bldg., engr.

Ont., Sandwich—Plans 10,000 ft. 8 in. c.i. mains in Tecumseh Rd. and Partington Ave. $30,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

BIDS DESIRED

N. Y., Buffalo—Apr. 21, by Commissioner Pub. Wks., Municipal Bldg., shaft, screen well and conduits in connection with filter plant. G. C. Andrews, engr. Filtration Div., Bureau Water. Fuller & McClintock, 170 Bway., New York City, consult. engrs.; adv. E. N.-R. Mar. 27.

N. Y., Jamestown—Apr. 15, 2 m.g. concrete reservoir. L. T. Klauder, Bankers Trust Bldg., Phila., Pa., consult. engr.

N. Y., Port Washington—Apr. 9, by Bd. Water Comrs., pumping unit, tank, tower, well drilling and building construction. N. S. Hill, Jr., 112 East 19th St., New York, consult. engr.; adv. E. N.-R. Mar. 27.

N. J., Roseland—Mar. 28, at Band Assn. Hall, Freeman St., 5,000 ft. more or less 6 in. c.i. mains in Eagle Rock Ave., etc., for boro.

Pa., Downington — Apr. 14, by Boro Council, furnishing 633 tons 6, 8, 10 and 12 in. Class B, bell and spigot c.i. pipe and 7 tons c.i. specials. W. Easby, Jr., Commonwealth Trust Bldg., Phila., engr.; adv. E. N.-R. Mar. 27.

O., Cleveland—Apr. 2, by Cuyahoga Co. 13,000 ft. 6 and 8 in. c.i. mains, Impvt. 550 of Co. Sewer Dist. 5. R. F. MacDowell, Court House, engr.

Ill., Metropolis—Apr. 7, by R. Finney, city clk., 200,000 gal. concrete reservoir, brick and concrete building, 158 ft. concrete chimney, two 300 hp. water tube boilers, coal elevator and conveyor, 100,000 gal. tank on tower, 250 kva. engine and generator, 6-panel switchboard, 500 kw. generator unit condensor, heater and boiler feed pump, 700 g.p.m, heavy duty pump, 1,000 g.p.m., deep well, 23,500 ft. 4- to 10-in. pipe, etc. $140,000. W. A. Fuller Co., Railway Exch. Bldg., St. Louis, Mo., engrs. Noted Mar. 20.

Wis., Appleton—Apr. 1, by Water Comn., F. Morris, secy., 8 tons caulking lead and 25,000 lb. ¾ in. extra strong lead pipe.

Wis., Minocqua — Mar. 31, by Village Bd., subterranean water supply, 350 g.p.m., to exceed $25,000.

Wis., White Fish Bay—Mar. 31, by W. Volkmann, village clk., 2½ mi. 6- and 8-in. c.i. mains. $20,000. T. F. Buckley, Village Hall, engr.

Ont., Grimsby—Apr. 5, by T. Allan, clk. North Grimsby Twp., furnishing 5,566 ft. 6 in. c.i. pipe with specials, 6,332 ft. 3 in. w.i. pipe and specials, valves, hydrants, also trenching, laying and backfilling above mentioned pipe. $25,000. F. N. Rutherford, St. Catharines, engr.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co., 17,000 ft. 6 and 8 in. c.i. mains, Impvt. 42, from J. B. Lynn, Caxton Bldg., $69,040. Noted Mar. 6.

Ore., Portland—For 9,000 water meters for house connections, from Gamon Meter Co., 282 South St., Newark, N. J., $64,800.

CONTRACTS AWARDED

N. Y., Lyndonville—New water supply system, to Blair & Ingham, Hilton, $90,000.

Stadium — Lewisburg, Pa. — Carrere, Shreve & Lamb, archts., 52 Vanderbilt Ave., New York City, rein.-con. stadium, for Bucknell University, to T. J. Foley Co., 429 3rd Ave., Pittsburgh, $225,000.

N. J., Wanaque—Boro Council, water distribution system and reservoir, to W. G. Fritz, 258 Valley Rd., West Orange. Noted Feb. 14.

Ky., Danville—City and Hydro-Electric Co., M. E. Taylor Bldg., Louisville, rebuilding municipal waterplant, to Cope & Fisher, Decatur, Ill. $125,000.

O., Cincinnati—C. F. Hornberger, dir. Pub. Serv., 10,000 ft. 12 in. c.i. mains in Winton and Gray Rds., etc., to Crumley, Jones & Crumley, 2301 Concord St. $45,276. Noted Feb. 28.

O., Cincinnati—Laying 4, 6, 8, 10 and 12 in. c.i. mains, to M. F. Quill & Son, 409 Gerke Bldg., $64,562. Engrs. est. $60,000.

O., Columbus—See "Streets and Roads."

Mich., Berkley—Furnishing and laying 9,870 ft. 12 in., 6,930 ft. 10 in., 41,995 ft. 8 in., 2,350 ft. 6 in. c.i. pipe, gates, hydrants, etc., to Coleman & Harding, 206 East Grand River Ave., Detroit. $170,865. Noted Mar. 6.

Wis., Manitowoc—For 8,000 ft. 6 in. and 1,500 8 in. c.i. pipe and fittings, to Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago.

Wis., Milwaukee — Power piping for Riverside Pumping Station, to Industrial Heating & Eng. Co., 143 Oneida St., $29,800. Noted Mar. 20.

Wis., Shorewood (Milwaukee P. O.)—For c.i. mains in 11 streets, to Wenzel & Henoch Co., 498 27th St., 2,699 ft. 6 in. $2.87 to $3.39, 2,680 ft. 8 in. $3.27 to $3.79; to Dean Constr. Co., 482 East North Ave., 1,272 ft. 6 in. $2.63 to $3.45, 2,736 ft. 12 in. $5.60 and 577 ft. 16 in. $8; to J. B. Forrestal, 256 15th St., 711 ft. 6 in. $2.80. Noted Mar. 13.

Kan., Arkansas City — Waterworks improvements, incl. 20,055 ft. 4 in. Class B pipe, 7,337 lbs. specials, 2 wells, etc., to L. A. Galleciez, End, Okla., $21,254. Noted Mar. 6.

Kan., Kansas City—Motor to operate gate valves in river pump houses, to Ludlow Valve Mfg. Co., 1416 R. A. Long Bldg., Kansas City, Mo., $12,799. Noted Feb. 14.

Neb., Norfolk—S. R. McFarland, city clk., constructing 10,162 ft., 4 in. mains, in Dists. 73-77 inclusive, to Donaldson Constr. Co., Norfolk, $15,027. Noted Mar. 13.

Mo., Festus — Water works plant and distribution system, to McEachin & McEachin, Southern Trust Bldg., Little Rock, Ark., $73,403. Noted Mar. 6 under "Sewers."

Mo., Thayer — Reservoir, piling, valves and hydrants, to W. F. Plummer, 434 East Elm St., Springfield, $44,000. Noted Feb. 7.

Okla., Nowata—Filter, motor driven centrifugal pumps, storage reservoir and main extensions, to Sherman Machine Co., 18 East Main S., Oklahoma City, $68,251. Noted Feb. 28

Okla., Oklahoma City—Main extensions, dam, gates, bank protection and drain lines, to Smith Bros. Inc., Dallas, Tex., and W. E. Callahan Constr. Co., Great Southern Life Bldg., Dallas, Tex. Total $793,675. Noted Mar. 13.

Okla., Woodward — Four pumps, 1,275 g.p.m. against 200 ft. head, 1,250 g.p.m. against 175 ft. head, 1,275 g.p.m. against 175 ft. head and 1,325 g.p.m. against 190 ft. head, to Layne & Bowler, Chelsea Ave., Memphis, Tenn., $11,700. Noted Mar. 6.

Brazil—Forteleaza, Ciara—General contract 3 m.g. filter plant here, to C. A. D. Bayley, Interstate Bank Bldg., New Orleans, La. Cost $1,500,000. Equipment to International Filter Co., 333 West 25th Pl., Chicago, Ill., $27,000.

Sewers

PROPOSED WORK

Fla., Tampa—Apr. 22, $750,000 bonds, extending sanitary and storm sewers. R. D. Martin, city engr. Noted Jan. 3.

La., Lake Providence—Apr. 1, $85,000 bonds for storm and sanitary sewers.

O., Akron—Plans storm sewers in Massillon and Ira Aves. $100,000.

O., Columbus—See "Streets and Roads."

Ind., Gary—Plans sewage settling tanks, $300,000; sewage pumping station $210,000; storm sewers $250,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Mich., Dearborn—Having plans prepared 9,247 ft. 12-36 in. vitr. crock, concrete and brick storm water sewers. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, engrs.

Mich., Detroit—Having plans prepared experimental sewage disposal plant (sedimentation process and screens) at outlet of Lonyo Rd. into Baby Creek. $80,000. G. Jerome, city engr.

Sewers (Continued)

Mich., Detroit — Dept. Pub. Wks., had plans prepared 4,289 ft. of 12 to 20 in. vitr. crock storm sewer in Nottingham Ave., 3,227 ft. 12-18 in. in Audubon Ave., 3,030 ft. 12-18 in. Lateral 3977, 1,348 ft. 10 and 15 in. Lateral 4088, 4,920 ft. 12-20 in. Lateral 4094, 1,584 ft. 10 and 12 in. Lateral 4096, and 849 ft. 12-20 in. Lateral 4099. G. Jerome, city engr.

Mich., Grand Rapids—Takes bids about Apr. 15, 7 ft. storm sewer in Fulton St. $45,000. M. P. Adams, Grand Rapids, engr.

Ill., Niles Center—Takes bids about Apr. 14, sewer in Main St. $500,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs. Noted Dec. 13.

Ill., Park Ridge—Plans new sewerage system. $100,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Wheaton—Plans sanitary sewers and disposal plant. $300,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Wis., Kenosha—Plans sewers in outlying territory. $25,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Wis., New London—Had plans prepared 3,000 ft. 18- to 56-in. vitr. storm and sanitary sewer in Oshkosh St., to exceed $25,000. H. R. Albert, Court House, Green Bay, engr.

Ia., Des Moines—Soon takes bids Beaver Ave. Sewer System, 5 mi. pipe line and pumping plant. $110,000. K. C. Kostberg, city engr.

Kan., Kansas City—Plans to purchase 18 flood sewer pumps. $180,000. G. T. Darby, City Hall, purch. agt. Noted Nov. 8.

Neb., Louisville—Plans sewerage system. $40,000. Prince-Nixon Eng. Co., 501 Peters Trust Bldg., Omaha, engrs.

Mo., Sullivan—Election Apr. 1 $45,000 bonds sanitary sewers and disposal plant. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs. Noted Feb. 7.

Tex., Houston—Election Apr. 26, $250,000 bonds for storm sewers, $200,000 bonds sanitary sewers. J. C. McVea, city engr.

Okla., Cushing—Voted $98,000 bonds outfall sewer and disposal plant. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Noted Mar. 13.

Okla., Lawton—Defeated $85,000 bonds outfall sewer and disposal plant. W. V. Montin, city engr. Noted Mar. 13.

Colo., Denver—Plans sewers in outlying districts, to exceed $25,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Calif., Burbank—Having plans prepared sewerage system, incl. disposal plant by farm method. To exceed $25,000. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

Calif., San Anselmo—See "Streets and Roads."

BIDS DESIRED

Mass., Longmeadow—Apr. 23, at Town Hall, Bark Haul Rd. Outfall to Connecticut River. C. Euson, chn. Water and Sewer Comrs.; adv. E. N.-R. Mar. 27.

Pa., Mercer—Apr. 11, by Boro Council, 2 sewage treatment plants and 1,000 ft. 10 in. sewers. $25,000. J. M. Rice, Oliver Bldg., Pittsburgh, consult. engr. Noted Jan. 3.

Pa., Upper Darby (branch Phila. P. O.)—Apr. 1, by Comn. Upper Darby Twp., Long Lane and Garret Rd., constructing Cobbs St. outfall sewer from 69th to 60th Sts., 17,400 ft. long, in 4 sections. A. F. Damon, Municipal Bldg., chn. Bureau Pub. Wks.

O., Akron—Apr. 10, by Bd. Control, ¾ mi. Wooster Ave. trunk sewer, also Willow Run trunk sewer, (9½ ft. diam). $200,000.

O., Cleveland—Apr. 2, by Cuyahoga Co., 22,000 ft. 8- to 48-in. vitr. sewers in Miles Rd. Impvt. 501, Sewer Dist. 5. R. F. MacDowell, Court House, engr.

O., Cleveland—See "Streets and Roads."

O., Euclid—Apr. 7, storm and sanitary sewers. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs. Noted Mar. 13.

O., Marion—Apr. 15, at office of O. A. Benedict, dir. Pub. Serv., main sanitary sewer, Contr. C-B and Contr. D. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.; adv. E. N.-R. Mar. 27.

O., New Philadelphia — Apr. 3, by Director Pub. Serv., 3,500 ft. sanitary sewers and 3,800 ft. 6 in. lateral sewers in Bway. and High St., 10-16 ft. depth. $30,000. G. E. Arnold, city engr.

Ind., South Bend—Apr. 8, by Dept. Pub. Wks., River Park Sewer System 3. $375,000; adv. E. N.-R. Mar. 27.

Mich., Detroit—Mar. 31, by Dept. Pub. Wks., Six Mile Rd. Sewer, Sect. 9, 1,303 ft. 6 ft. 9 in. cylinder, 1,321 ft. 6 ft. 6 in., 1,320 ft. 6 ft. 3 in., and 1,310 ft. 5 ft. 6 in. cylinder in tunnel, brick or monolithic concrete; also Seven Mile Rd. Sewer, Sect. 9, 2,860 ft. 5 ft. 6 in. and 2,408 ft. 5 ft. brick cylinder, 80 ft. 24 in. and 120 ft. 20 in. crock, in tunnel. G. Jerome, City Hall, engr.

Ill., South Chicago Heights (Chicago Heights P. O.)—Apr. 10, by Bd. Local Impvts., at office of E. C. Hansen, village clk., 2808 Jackson Ave., vitr. tile sanitary sewers. A. L. Fox, Commercial Bank Bldg., Chicago Heights, engr.; adv. E. N.-R. Mar. 27.

Wis., Beloit—Apr. 5, by G. E. Heebink, city engr., 20,350 ft. 8- to 24-in. sewers in various streets.

Ia., Oelwein—See "Streets and Roads."

Wyo., Cheyenne—Apr. 3, at office C. R. Bailey, city clk., 14,360 ft. 8 in. and 682 ft. 10 in. vitr. sanitary sewers. C. D. Shaver, city engr.

BIDS RECEIVED

Conn., Hartford—Bd. Contract & Supply, Municipal Bldg., Mar 18, Granby St. system, Sect. A, 734 ft. 36-in. sewer and 625 ft. tunnel, from Louis Jacques Constr. Co., 59 Carlton Ave., Bridgeport, $40,553; Sect. B, 3,205 ft. 18- and. 24-in. sewer, trunk line to Burnham St., from Berardino Silvestri, 249 Otis St., $36,182; Sect. C, branch sewer in streets east of Granby St., etc., from J. E. Driscoll, 499 Prospect St., Torrington, $27,541. Noted Mar. 6.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Mar. 19, from Nazzarro & Querriero, sewers in Bedford Ave. 82% engrs. est. ($11,561), 53rd St. 82% ($7,422), West 9th St. 83% ($6,946), New York Ave. 86% ($5,498), Quenton Rd. 86.49% ($2,678), 12th Ave. 96% ($1,502); C. F. Vacharas, 645 40th St., West 9th St. 88.7% ($5,229), Beadel St. 86% ($450), Albany Ave. 91% ($3,539), 82nd St. 87% ($2,521), 4th Ave. 107% ($1,869); Tomassetti & Co., Inc., 1133 60th St., Montgomery St. 95% ($4,139), Riverdale Ave. 99% ($15,257); Manmill Constr. Co., 2035 Douglass St., Riverdale Ave. 89% ($1,723); Tozzi Contg. Co., in 7th Ave. 88.74% ($1,650); J. F. Colgan Co., in East 95th St. 82% ($74,750). Noted Mar. 13.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Mar. 19, temporary sewer in Price St., etc., from P. F. Connelly Co., $42,618. Noted Mar. 13.

O., Cleveland—Cuyahoga Co., Mar. 12, 29,750 ft. 8- to 36-in. vitr. sewers, Impvt. 38, from Salem & George Bros., Erie Bldg., $162,820. Noted Mar. 6.

O., East Cleveland (Cleveland P. O.)—For (a) segmental block (b) rein.-con. sewers in Hayden Ave., from Manson Co., Engineers Bldg., Cleveland, (a) $110,000; River Constr. Co., 2402 Mapleside Rd., Cleveland, (b) $115,000. Noted Mar. 6.

Ill., Chicago—For Elmwood Park outfall sewer, from Amer. Sewer & Drain Constr. Co., Kenilworth St. and Central Park Ave., $314,755.

CONTRACTS AWARDED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Rosedale Ave., to Golfin Realty Corp., $46,931; in Dewey and Wilson Aves., to C. W. MacDonald, $63,477 and $123,470 respectively; in Cauldwell Ave., to A. Gregorio & Co., $17,582; in Leland Ave., to Hanratty Contg. Corp., $21,395. Noted Mar. 6.

O., Columbus—See "Streets and Roads."

O., Lima—Intercepting sewer, Contr. B, to Haddad-Kairal Constr. Co., Cleveland, $315,912. Noted Feb. 7.

O., Toledo—Lucas Co. 9,405 ft. 6- to 15-in. v.s.p. in Sewer 84, Old Orchards Addition, 2nd extension, to Peters Bros., Spitzer Bldg., $24,839, engrs. est. $25,310; 15,298 ft. 6- to 15-in. v.s.p. in Sewer 89, Broadmoor and Central Gardens, to J. N. Bick, Nasby Bldg., $34,699, engrs. est. $35,790. Noted Feb. 21.

Ia., Oelwein—Imhoff tanks, sludge beds, pumping station and equipment, to J. A. Dunkel Co., Webster City, $39,336. Noted Feb. 28.

Neb., Benkleman—Vitr. clay sewers, to C. L. Hanson, Charles City, Ia., $35,910.

Mo., Festus—Sewerage system and disposal plant, to McEachin & McEachin, Southern Trust Bldg., Little Rock, Ark., $66.247. Noted Mar. 6.

Tex., Kerrville—Sewer system and disposal plant, to Elder Constr. Co., 235 Moore Bldg., San Antonio, $78,000.

Waste Disposal

PROPOSED WORK

Fla., Tampa—Election Apr. 22, $30,000 bonds, garbage incinerator. R. D. Martin, city engr. Noted Jan. 3.

Bridges

PROPOSED WORK

Fla., Tampa—Apr. 22, $250,000 bonds, for bridge on Fortune St., $325,000 for bridge on Carew St. and $325,000 for bridge on Cass St. R. D. Martin, city engr.

Fla., Tampa—See "Streets and Roads."

Ky., Dayton—Chesapeake & Ohio R.R. Co., 823 East Main St., Richmond, Va., plans steel bridge, here, 400 tons structural steel. To exceed $50,000. H. Frazier, ch. engr.

O., Old Fort—Seneca Co. (Tiffin) plans steel bridge over Sandusky River, on Tiffin-Fremont Rd., here. $100,000.

O., Rocky River—City, Cuyahoga Co. (Cleveland), and New York, Chicago & St. Louis R.R., Prospect Ave. and East 2nd St., Cleveland, having plans prepared bridge, steel superstructure, concrete substructure, 72 ft. wide, over Blount Rd., here. $262,600. E. E. Hart, Columbia Bldg., Cleveland, engr.

Wis., Crandon—See "Streets and Roads."

Neb., Beaver City — Furnas Co., c/o County Clerk, takes bids in April one 20 x 70 ft. pony truss bridge on Beaver City-Arapahoe Rd., Federal Aid Project 30, incl. 66 cu.yd. mass and 27.6 cu.yd. arch concrete, 7,328 lb. reinforcing bars, 1,658 lb. structural steel, etc. $40,000. R. L. Cochran, Lincoln, state engr.

Tex., Claredon—Donley Co. making plans 312 ft. bridge across Salt Fork of Brazos River, one 70 ft. steel truss and eight 30 ft. I beam spans. $25,000. C. L. Hasie, Box 168, Memphis, engr.

Tex., La Grange—Fayette Co. making plans 1,250 ft. bridge across Brazos River on State Highway 3-B, four 184 ft. steel truss and fourteen 37 ft. concrete girder spans. $275,000. R. E. Shiller, co. engr.

Okla., Ralston — Pawnee Co., Pawnee, election Apr. 8, $200,000 bonds, 3 steel truss bridges across Arkansas River, here. W. C. Burnham, Capitol Bldg., Oklahoma City, engr.

Wash., Seattle—Voted $1,500,000 bonds for West Spokane St. Bridge and $500,000 for Montlake-Stadium Bridge. J. D. Blackwell, city engr. Noted Jan. 31.

Calif., Los Angeles—City, Los Angeles Co., Union Pacific Ry., 610 South Main St. and Atchison, Topeka and Santa Fe Ry., Kerckhoff Bldg., had plans approved by State R.R. Comn., bridge across Los Angeles River at 9th St. $855,425. This is first of 6 new bridges, 9th, Aliso, Macy, 1st, 4th and 7th Sts., to be approved by the Comn. Macy St. bridge will be considered May 20. Noted July 12.

Calif., Stockton—San Joaquin Co. having preliminary plans prepared bridge near Disappointment Slough. $35,000. F. E. Quail, co. surv.

Que., Sherbrooke—Canadian Pacific Ry., Windsor St., Montreal, submitted plans to City Council for enlarging Galt St. viaduct. $28,000.

BIDS DESIRED

N. Y., Le Roy—Apr. 11, by Town Bd., rein.-con. bridge over Oatka Creek. $80,000. C. A. Chapman, town clk. Noted Dec. 27.

S. C., Greenwood—Apr. 10, by Greenwood Co. Hy. Comn., rein.-con. and steel bridge over Saluda River, between Laurens and Greenwood Counties on State Route 7, Federal Aid Project 233, 993 ft. rein.-con. and steel bridge of 1,200 ft., steel span and 34 rein.-con. spans containing 1,660 cu.yd. dry and 629.6 cu.yd. wet excav., 1,719 cu.yd. concrete, 235,000 lb. structural and 236,760 lb. reinforcing steel, 1,980 sq.yd. paving, etc. C. H. Moorefield, 1626 Main St., Columbia, engrs.

Ga., Athens—Apr. 1, by Comrs. Clarke Co., 150 ft. concrete bridge, 34 ft. wide. To exceed $25,000. J. W. Barnet, city engr.

Fla., Fort Myers — See "Streets and Roads."

Tennessee—Apr. 4, by Dept. Hys & Pub. Wks., Nashville, four 40 ft. rein.-con. slab spans and piers over Sulphur Fork Creek, one 40 ft. rein.-con. span over Wartrace Creek, State Aid Project 158, Robertson Co.; four 40 ft. rein.-con. spans, concrete

Bridges (Continued)

floor, piers and abutments at Sta. 96-30, Federal Aid Project 82, between Clinton and Knox Co. line, Anderson Co. J. G. Creveling, comr.

O., Akron—Apr. 9, by S. Porter, clk. Summit Co., 60 ft. concrete beam bridge, 20 ft., on Richfield-Hudson Rd., $12,000; 66 ft. steel girder bridge, 22 ft., on Cleveland-East Liverpool Rd., $14,600; 70 ft. concrete arch bridge, 20 ft., on Cleveland-East Liverpool Rd., $14,000; 60 ft. span steel girder bridge, 22 ft. roadway, on Triplett Rd. 44, $18,320. J. Weaver, Court House, engr.

O., Milford—Apr. 18, by Hamilton Co., Court House, Cincinnati, substructure for bridge, incl. 25,000 lb. reinforcing, 1,040 cu.yd. concrete, 1,000 lin.ft. concrete piling, 1,766 sq.yd. concrete paving, etc., $28,300, also new bridge on old site, superstructure: 260 ft. single span steel truss bridge, 30 ft. clear roadway, here, $51,700. E. A. Gast, Court House, Cincinnati, engr.

Ill., East St. Louis—Apr. 22, by Bd. Trustees East Side Levee and Sanitary Dist. 225-A, Collinsville Ave., steel bridge over Prairie du Pont diversion channel, two 101½ ft. and one 169-ft. spans, concrete piers and abutments. M. D. Baker, pres.

Ill., Urbana—See "Streets and Roads."

Kan., Osborne—Apr. 9, by E. E. Clarke, engr., Osborne, constructing Hart Hill Bridge, 120 ft. steel truss span, 18 ft. roadway, 352 yd. cement, 98,384 lb. structural steel, 2,772 ft. piling, Federal Aid Project 188, Sect. B, Osborne Co.

Neb., Grand Island—Apr. 1, by Hall Co., c/o J. E. Lyle, 4 bridges on Federal Aid Project 215, Hastings-Grand Island Rd., incl. thirteen 80 ft. low riveted trusses, 18 ft. roadways. $200,000 or more. R. L. Cochran, Lincoln, state engr.

Arkansas—Apr. 15, by Bd. Comrs. Pulaski, Saline and Garland Counties, at office State Hy. Comn., Little Rock, steel bridges on Little Rock Springs Highway, 132,000 lb. structural steel in I-beam bridges and 42,285 lb. in truss bridges, 141.63 cu.yd. concrete, 29,015 reinforcing in bridge floor. Two substructures previously awarded. A. M. Lund, Southern Trust Bldg., Little Rock, engr.

Tex., Decatur—See "Streets and Roads."

New Mexico—See "Streets and Roads."

Nevada—Apr. 9, by Dirs. Dept. Highways, Carson City, 882 ft. timber trestle bridge over Virgin River, near Bunkerville, Clark Co., Route 6, Sect. H, incl. 7,740 lin.ft. treated timber piles, 190,600 ft. timber, 3,493 sq.yd. asphaltic wearing surface, etc. G. W. Borden, state highway engr.

Calif., Alton—Apr. 7, by State Highway Comn., Sacramento, bridge across Van Duzen River, near here, (I-Hum-I-F), three 163 ft. rein.-con. arch spans and eight 30 ft. rein.-con. girder spans, incl. 2,975 cu.yd. concrete, 2,200 cu.yd. excav., 3,500 c.w.t. reinforcing, 650 lin.ft. rein.-con. piles. R. M. Morton, state highway engr.

Calif., Williams—See "Excavation, Drainage, Irrigation."

BIDS RECEIVED

Me., Sullivan—State Hy. Comn., Augusta, Mar. 19, superstructure for bridge over Taunton River between here and Hancock, four 190½ ft. spans and one 209 ft. draw-span, from Amer. Bridge Co., 30 Church St., New York City, $127,622. Noted Feb. 21.

Connecticut—State Hy. Dept., Hartford, Mar. 17, bridge over Patchogue River at Westbrook, from Holbrook Co., Westbrook, steel superstructure and concrete deck $20,580, substructure, plain concrete, $13,593. Noted Mar. 13, under "Streets and Roads."

Illinois—Bd. Pub. Wks. and Buildings, Div. of Highways, Springfield, Mar. 21, 1 girder and 3 slabs on Route 12, Sect. 2B, Lawrence Co., from Acme Engineers, Decatur, $13,723; 2 girders on Route 12-3B, Lawrence Co., from O. B. Baird & Sons, Summer, $13,223; 1 slab and 1 girder on Route 2-54B, DeWitt Co., from Harrison Bridge & Constr. Co., Decatur, $11,517. Noted Mar. 13.

CONTRACTS AWARDED

Connecticut—State Hy. Dept., Hartford, bridge over Patchogue River at Westbrook, to Holbrook Co., Westbrook, steel superstructure and concrete deck $20,580, substructure plain concrete, $13,593. Noted Mar. 13.

Pa., Phila.—Delaware River Bridge Joint Comn., Room 806 Widener Bldg., constructing cable bands, suspenders and hand ropes, Contr. 13, to Keystone State Constr. Co., 210 South 13th St., $404,850, suspended structure, Contr. 14, to Amer. Bridge Co., Widener Bldg., $2,888,000. Noted Feb. 21.

S. C., Spartanburg—Southern R.R. System, 13th St. and Pennsylvania Ave., Wash., D. C., 115 ft. concrete bridge over tracks, here, to Von Glaher Constr. Co., Spartanburg, $24,000.

Fla., West Palm Beach—Palm Beach Co., double leaf deck plate girder bascule draw span, two deck plate girder approach spans and substructions over Palm Beach Canal on Military Trail at Boynton, to D. E. O'Hara, West Palm Beach, $24,635; complete wood pile trestle, steel swing draw span bridge, over Lake Worth at Lantana, to Lantana Finance Corp., Lantana, $15,500. Noted Jan. 10.

Alabama—State Hy. Dept., Montgomery, 802.5 ft. bridge, 5 steel spans, to Gould Constr. Co., Independent Life Insurance Bldg., Nashville, Tenn., $78,385. Noted Feb. 28.

Miss., Greenwood—Le Flore Co., bridge across Yazoo River, to Riley & Bailey, Intl. Life Bldg., St. Louis, Mo., $186,224. Noted Feb. 21.

Miss., Iuka—See "Streets and Roads."

Miss., Starkville — See "Streets and Roads."

Ohio—See "Streets and Roads."

O., Huron—Wheeling & Lake Erie R.R., Huron-6th Bldg., Cleveland, steel for steel and plate girder bridge, Van Rennselaer St., here, to McClintic Marshall Co., Oliver Bldg., Pittsburgh. Engrs. est. $25,000.

Illinois—Following are contracts awarded by Dept. Pub. Wks. and Buildings, Div. of Highways, Springfield, from Jan. 1 to Mar. 15: 2 slabs on Route 12, Sect. 12B, Clay Co., to Barker & Lively, Oblong, $6,885; 3 slabs and 1 substructure for steel bridge on Route 2, Sect. 74B, Lee Co., to J. R. Stevens, Monmouth, $24,167; 2 girders, on Route 36, Sect. 18B, Pike Co., to C. T. Laird, Pittsfield, $13,351; 1 girder on Route 2, Sect. 20B, Fayette and Shelby Counties, to L. C. Kesler, Herrick, $7,308; 1 steel superstructure on Route 3, Sect. 26C, Mercer Co., to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $7,248. Noted Nov. 29.

Minn., St. Paul—Ramsey Co., bridge over Mississippi River on Robert St., 8 arch spans, 72 to 244 ft. long, total length about 1,086 ft. with 449 ft. approaches, 50 ft. roadway, 2 sidewalks, incl. paving between 3rd and Fillmore Sts., to Fegles Constr. Co., 706 1st Ave. N., Minneapolis, $1,621,310. Noted Mar. 13.

Kan., Concordia—Cloud Co., three 50 ft. span steel girder bridge known as Elm Creek Bridge No. 1, near Ames, to Pinnell & Medis, 1027 Clay St., Topeka, $25,133. Noted Feb. 21.

Kan., Topeka—See "Streets and Roads."

Wash., Everson—Whatcom Co. (Bellingham), steel bridge over Nooksack River, here, to F. L. Cramer, Bellingham, $35,000. Engrs. est. $36,000.

Que., St. Anne de Bellevue—A. Galipeault, minister Dept. Pub. Wks., Quebec, bridge between here and Perrot Island, superstructure to Dominion Bridge Co., Lachine, $123,500, substructure and approaches to Dufresne Constr. Co., 436 Pie IX Ave., Montreal, $294,492. Noted Jan. 31.

Dams

PROPOSED WORK

Quebec—Quebec Streams Comn., Montreal, takes bids in April, storage dam at outlet of Lac Sorcier, 30 mi. north of St. Paulin, to form 3,903,000,000 cu.ft. storage reservoir, Algonquin Power Co. plans 20,000 hp. hydro electric plant at St. Paulin.

Railways

PROPOSED WORK

New York — New York Central R.R., Grand Central Terminal, New York City, having surveys made cut-off from Selkirk to South Schenectady, double tracks, junction at New Scotland. G. W. Kittredge, ch. engr.

BIDS DESIRED

New York—Bay Pond, Inc., Utica, taking bids 10 mi. standard guage railroad in Adirondack Mountains to connect Bay Pond and New York Central R.R. To exceed $75,000. Address J. H. McDonald, Utica, vice pres. and genl. mgr.

BIDS RECEIVED

Calif., San Diego — See "Unclassified under Pier."

CONTRACTS AWARDED

British Columbia—British Columbia Electric Ry., 425 Carroll St., Vancouver, clearing right of way and constructing 5 mi. logging railroad to site of new Alouette Lake power house and dam, to J. W. Stewart & Barber, 739 Hastings St. W., Vancouver, $150,000.

Excavation, Drainage, Irrigation

PROPOSED WORK

Mass., Holyoke—Holyoke Water Power Co. plans dredging channel along west bank of Connecticut River, from power plant to point near Boston & Main R.R. bridge at Riverside. Deposits taken from river bed will be used to build up portion of river bank.

Neb., Norfolk—Soon takes bids 80,000 cu.yd. drag line excav. $25,000. H. H. Tracy, city engr.

BIDS DESIRED

Miss., Vicksburg—Apr. 3, by W. G. Paston, pres. Warren Co., Levee Dist., dredging Muddy Bayou, digging channel through old bayou 1 mi. long, from Eagle Lake to Steele's Bayou, if done dragline bottom to be 10 ft. wide with 10 ft. berm, 65,000 cu. yd., if done floater dredge bottom 13 ft. wide and side slopes 1½ to 1, 55,000 cu.yd. J. S. Allen, Greenville, engr.

Ark., Jonesboro—Apr. 12, by Comrs. D. D. 27, at office Cobb & Lee, Jonesboro, ditches, incl. 365,569 cu.yd. excav., in Craighead Co. J. F. Price, secy. Drainage Bd.

Calif., Oroville—Apr. 5, by W. J. Monro, secy. Oroville-Wyandotte Irrigation Dist., 4,000 lin.ft. riveted slip joint pipe and fittings.

Calif., Williams—Dirs. Williams Irrigation Dist. taking bids 13 mile canal to connect with Glenn-Colusa Irrigation system, incl. bridges, siphons, checks, gates, headwalls, etc. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, consult. engr. Noted Jan. 17.

BIDS RECEIVED

Wis., Milwaukee—Dredging rivers, etc., 116,000 cu.yd., from Great Lakes Dredge & Dock Co., 216 West Water St., $0.439 per cu.yd. Noted Mar. 13.

CONTRACTS AWARDED

N. Y., Glens Falls—R. K. Fuller, comr. Canals & Waterways, Albany, Mar. 11, repairing Glens Falls, Feeder-Champlain, here, Contr. M-1, to W. M. Bronk, Hudson Falls, $24,477. Noted Feb. 14.

N. J., Jersey City—Mosquito Extermination Comn., Bergen and Sip Aves., new drainage ditches on salt marsh meadows situate, lying and being within Hudson Co., to J. D. Manahan, Englewood, cleaning clear meadows $0.0325 per lin. ft., cleaning stump meadows $0.12, cleaning old ditches $0.045. Noted Feb. 28.

O., Cleveland—For 170,000 yd. dredging in Cuyahoga River, to Great Lakes Dredge & Dock Co., Williamson Bldg., $61,000. Noted Mar. 20.

Mo., Gallatin—South Daviess Co. D. D., 2,200,000 cu.yd. main ditch, 428,000 cu.yd. laterals and cut-off ditches and 1,400 cu. yd. embankment, to L. E. Sternberg, Creston, Ia., $180,903. Noted Mar. 6.

Streets and Roads

PROPOSED WORK

Mass., Holyoke—Plans to issue $200,000 bonds for permanent roads.

N. Y., Dundee—Voted $25,000 bonds paving various streets. C. Anderson, village pres.

N. Y., Fairport — R. S. Fuller, comr. Canals & Waterways, Albany, received no bids Mar. 11, widening roadway of West Ave. approach on lift bridge at Main St., here, Contr. 216. Noted Feb. 14.

N. Y., Ilion—Bd. Village Trustees making plans paving Railroad Ave. $25,000. A. Wood, village engr.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., rejected bids Mar. 13, grading, curbing, laying sidewalks and crosswalks on Worthen St. Noted Mar. 20.

N. Y., New York Mills—Voted $100,000 bonds concrete paving Main St. R. J. Healey, village pres.

N. Y., Yorkville—Voted $60,000 bonds paving Inman Pl., Oatley, Coventry, Bunker and Trinity Aves. P. Scheidlman, village pres.

N. J., Hamburg—Sussex Co. (Newton) plans concrete paving Hopatcong Blvd., also improve North Church-Hamburg Rd., here. $127,000. H. Snook, Newton, engr.

Streets and Roads (Continued)

Pa., New Castle—Takes bids in spring repaving ¼ mi. Croton Ave. from Crawford Ave. to Cascade St. $40,000 to $50,000. M. R. Miller, City Bldg., engr.

W. Va., Clarksburg—Harrison Co. election Apr. 8, $90,000 bonds, improving roads.

Fla., Bartow — Polk Co. voted $30,000 bonds asphalt paving 3 mi. Rds. 11 and 12; $25,000, 2½ mi. Rd. 9; $28,000, 2.8 mi. Rd. 8; $120,000, 12 mi. Rd. 10; $50,000, 5.25 mi. Rd. 6; $100,000, 10.25 mi. Rd. 5; $90,000, 10 mi. Rds. 4 and 7; $62,500, 6.25 mi. Rd. 3; $50,000, 5 mi. Rd. 2; $60,000, 6¼ mi. Rd. 1. Lakeland-Kathleen, all foregoing 9 ft. wide, in Special Rd. and Bridge Dist. 3. W. L. Boyde, co. engr.

Fla., Fort Lauderdale — Broward Co., election Apr. 8, $50,000 bonds, hard surfacing roads. F. A. Bryan, clk.

Fla., Fort Meade—Plans election $23,000 bonds, ½ cost of improving streets. Property owners to pay $46,000. E. L. Wade, clk.

Fla., Tampa—Election Apr. 22, $111,000 bonds, opening and widening Lafayette St., also constructing viaduct over Seaboard Air Line Ry. tracks. R. D. Martin, city engr. Noted Jan. 3.

Ala., Tuscaloosa—Tuscaloosa Co. to vote on $575,000 bonds for roads.

Miss., Greenwood—Voted $96,000 bonds brick paving Church, George, Washington, Henderson, Cotton, Johnson, Mississippi, Le Flore, Walthall and Front Sts., also First Alley.

Tenn., Pulaski—Plans paving 1st, 2nd and 3rd Sts. $132,000. B. H. Klyce, 1st and 4th Natl. Bank Bldg., Nashville, engr.

Ky., Whitesburg—Letcher Co. voted $210,000 bonds for roads. Noted Jan. 10.

O., Akron—S. Porter, clk. Summit Co., takes bids later part of April grading and graveling 3,700 sy.qd. Botzum Wyoga 100, $16,000, 4,200 sq.yd. Bath, Stowe Rd. 48, Sect. E, $17,000; grading and paving 12,900 sq.yd. Robinson Ave., rein.-con. or bituminous concrete, $52,000, 1.5 mi. Barberton-Springfield Rd. 14, Sect. C, 15,400 sq.yd. rein.-con. of 14,400 sq.yd. asphaltic concrete, $67,000, 11,750 sq.yd. Flickinger Rd., asphaltic concrete or macadam, $50,000, 2.58 mi. Richfield Hudson Rd. 19, 16 ft., 24,750 sq.yd. 2 in. asphaltic concrete, 26,500 sq.yd. bituminous macadam, or 26,500 sq.yd. concrete, $130,000, 4.12 mi. Cleveland-East Liverpool Rd. 12, 16 ft., 36,800 sq.yd. 2 in. bituminous concrete or 39,200 sq.yd. bituminous macadam, $150,000. J. Weaver, Court House, engr.

O., Akron—Summit Co. takes bids this spring improving 4.5 mi. Cleveland-East Liverpool Intercounty Highway, 20 ft., $150,000 or more, 9 mi. Kenmore-Mogadore Co. Highway, Barberton-Springfield Co. Highway, Sanitorium Rd., and Hammonds Corners-Ira Rd., 20 ft., $355,000, all brick; 3 mi. Robinson Ave. Co. Highway and Norton Ave. Rd., 20 ft., $130,000; 3 mi. Richfield-Hudson Co. Highway, $20 ft., $100,000-$120,000. J. Weaver, Court House, engr.

O., Cambridge—Takes bids in spring paving North 5th St., Stewart and Beatty Aves. $88,000.

O., Canton—Stark Co. plans improving ¾ to 1 mi. Navarre-West Lebanon Rd., 18 ft., probably macadam. $60,000. A. M. Wise, Court House, engr.

O., Columbus—Making plans grading, laying necessary water services, sewer connections and paving 2,092 ft. Mound St., 36 ft., brick $31,708, asphalt $25,616; 952 ft. alley north of Reinhard Ave. and alley west of Lorain Ave., 15 ft., brick $6,014, concrete $5,392; 158 ft. alley north of Sycamore St., 20 ft., brick $1,190, concrete $1,045; 285 ft. alley north of Tappan St., 15.42 ft., brick $1,746, concrete $1,545; 1,176 ft. alley west of St. Clair Ave. and alley north of Dakota Ave., 16 ft., brick $8,441, concrete $7,521; 332 ft. 2nd alley west of Kimball Pl., 14 ft., brick $2,054, concrete $1,838; 794 ft. Indianola Ave., 40 ft., brick $9,043, asphalt $6,705. R. H. Simpson, city engr.

O., Dover—Plans paving 6th St., $31,000, also takes bids in spring paving ¾ mi. 4th St., 30 ft., $75,000.

O., Lisbon—Columbiana Co. plans improving 2 mi. East Palestine-East Liverpool Rd., 18 ft. $100,000. L. C. Kirk, Lisbon, engr.

O., Steubenville — Plans paving South St., brick $53,000, asphalt with granite block $62,355, asphalt with hillside block $56,475. C. N. Teaff, Steubenville, engr.

Mich., Detroit — Having plans prepared paving with sheet asphalt 6,200 sq.yd. Florence Ave. from Fairfield to Livernois Aves. $33,910, and 3,800 sq.yd. from 12th St. to Bayless Ave. $21,890, 8,900 sq.yd. Fairfield Ave. from Fenkell to Puritan Aves. $45,760, and 3,200 sq.yd. from Puritan to Florence Aves. $17,570, 8,300 sq.yd. State Fair Ave. $45,980, 4,400 sq.yd. Barton Ave. $24,380, 6,000 sq.yd Sparta Ave. $33,650, 3,500 sq.yd. Wisconsin Ave. $17,880, 950 sq.yd. Shady Lane $4,730, paving 8,680 sq.yd. 4 alleys with one course concrete $22,225. G. Jerome, city engr.

Mich., Monroe — Had plans prepared grading and paving 10,010 sq.yd. East Front St., 7,390 sq.yd. West 6th St., and 4,321 sq.yd. West 5th St., one course 8 in. concrete. $65,000. F. M. Kressbach, city clk.

Ill., Chicago—Plans concrete paving 146,000 sq.yd. various streets. $1,000,000.

Ill., Galesburg — Plans paving West North St., brick, asphalt filler, cement concrete base, cement concrete curbs and gutters. $28,053. A. L. Richey, City Hall, engr.

Ill., Vandalia—Soon takes bids grading and paving National Trail Rd., 8,250 sq.yd. 7-in. concrete. $27,650. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, Mo., engr.

Wis., Jefferson—Jefferson Co. voted to grade and gravel surface Trunk Highway 107, Town Lake Mills, and Waterloo, $20,000, County Line Rd., Town Sullivan, $4,000, Welsh Rd., Town Ixonia, $11,000, Aliceton Rd., Town Watertown, $12,000; widening grade Palmyra-Rome Rd., Town Palmyra, $500; constructing Town Hall Bridge, Farmington $1,600, Busseyville Bridge 1, Town Sumner, $6,000, Hausz Bridge, Town Koshkonong $2,500. R. D. Royce, comr.

Wis., La Crosse—La Crosse Co. voted to macadam surface Trunk Highway 21, Town Hamilton, $17,384, Mindero-Holmen Rd., Town Farmington, $22,354. J. Hintgen, comr.

Ia., Davenport—Plans grading, curbing and about 6 mi. paving, bitulithic or sheet asphalt on concrete, $234,658; 1.5 mi. Division St., rein.-con., $55,091. C. J. Stephenson, city engr.

Ia., Riverside—Plans paving about 12 blocks. $40,000. E. E. Furman, clk.

Ia., Wellman — Plans paving, etc., 10 blocks. $40,000. H. E. Doud, clk.

Kan., Dodge City—Ford Co. soon takes bids grading and sand clay surfacing 4.405 mi. Federal Aid Project 221, Sect. A, 18 ft. J. W. Thornburg, co. engr.

Kan., Kansas City—Wyandotte Co. soon takes bids grading and 1 course concrete surfacing 1.73 mi. road, 16 ft. Former bids rejected. Noted Feb. 14.

Kan., Leavenworth — Leavenworth Co. preparing plans bituminous filled brick paving 3.8 mi. Fort to Fort Highway, Federal Aid Project 234. L. C. Clark, Leavenworth, engr. Noted Dec. 27.

Kan., Leavenworth—Leavenworth Co. soon takes bids surfacing 3.201 mi. Federal Aid Project 234, Sect. A, 24 and 30 ft., brick on concrete; 0.625 mi. Federal Aid Project 234, Sect. B, 24 ft., bituminous filled brick on 5-in. concrete. L. C. Clark, co. engr.

Neb., Beaver City — Furnas Co. soon takes bids gravel surfacing 4.59 mi. Federal Aid Project 67A, Cambridge-Holbrook Rd., 53,546 sq.yd. 4 in. gravel. R. L. Cochran, Lincoln, state engr.

Neb., Bennington — Plans to pave 10 blocks, average width 40 ft. $40,000. Engineer not selected.

Neb., Omaha—Soon takes bids paving and curbing 27th and 28th Aves., 18th, 25th, 44th, 29th, B, Corby, Parker, 15th, Wright, 33rd, Maple, Lafayette, S, Y, Seward, 20th, 17th, 39th, 58th, 21st, 52nd and 29th Sts., also 2 alleys; paving Mid City Ave., Corby, 16th, Binney, 62nd, Evans, 58th and Cuming Sts. $200,000. H. Beal, city engr.

S. D., Sioux Falls—Plans to pave 34,896 sq.yd. various streets. $90,000. W. C. Leyse, city aud.

Mo., Excelsior Springs—Soon takes bids grading and rein.-con. surfacing 15 blocks Thompson, Bway., Elizabeth, North Main, Excelsior, Marietta and Wildwood Sts., average width 30 ft. $40,000-$45,000. E. E. Parsons, city engr.

Mo., Fornfelt—Election Apr. 1, $25,000 bonds, 3,500 ft. street improvements.

Mo., Independence—Plans concrete paving 1 mi. Lexington Ave., 30 ft. R. H. Jones, Independence, engr.

Mo., St. Louis—Plans 11,685 sq.yd. concrete sidewalks with necessary grading in various parts of city. $41,453. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — Making preliminary plans resurfacing Arsenal St, 4,620 sq.yd. recut granite block, 550 cu.yd. concrete, $25,000; grading, curbing and paving 1,490 sq.yd. Brannon Ave., willite, asphalt, asphaltic concrete, warrenite, Kentucky rock asphalt, cement or brick, $8,900-$11,700, 3,790 sq.yd. Davison St., warrenite, asphaltic cement, asphalt, willite or brick, $27,800-$31,300, 3,050 sq.yd. Goethe St., brick, willite, Kentucky rock asphalt, cement, asphaltic cement asphalt or warrenite, $16,400-$20,600; widening, grading, curbing and guttering, laying sidewalks and asphalt paving 525 sq.yd. Delmar Blvd., $48,000; grading, granite curbing and paving 4,130 sq.yd. Emerson St., asphalt, willite, warrenite, asphaltic concrete or brick, $29,400-$34,600, 1,240 sq.yd. Eltman St., concrete or brick on concrete, $9,900-$11,000; grading, granite curbing, guttering and paving 2,950 sq.yd. Labadie St., willite, cement, asphalt, warrenite or brick, $25,000-$28,000. W. W. Horner, city engr.

Ark., Fayetteville — Having preliminary plans prepared grading and paving 13 blocks West Spring and Hill St. Dists., 28 ft., asphalt on concrete, or concrete. $65,000. Engineer not announced.

Tex., Albany — Shackleford Co. plans grading, gravel and hard surfacing 85 mi. State Highways 1-A, 18 and 23 (16 and 18 ft. wide). $1,300,000. Noted Mar. 13.

Tex., Austin—Travis Co. making plans grading, gravel surfacing and bituminous topping 14.5 mi. State Highway 71, 16 ft. $87,000. O. Leonard, Box 256, co. engr.

Tex., Baird — Callahan Co. soon takes bids grading, surfacing with sledged stone and asphalt macadam 9.62 mi. State Highway 1, 18 ft. $256,394. T. H. Webb, co. engr.

Tex., Childress—Childress Co. defeated $750,000 bonds, road construction. J. H. Calloway, co. judge. Noted Feb. 7.

Tex., Cuero — De Witt Co. plans hard surfacing, grading and bridging 20 mi. road, 18 ft. $405,000 includes State and Federal aid. S. Kulawik, co. engr. Noted Mar. 20.

Tex., Dallas—Making plans permanent paving Beverly Ave. from Bonnie View to Lancaster Sts., miscellaneous types. $250,000. E. A. Kingsley, city engr.

Tex., Falfurrias — Brooks Co. making plans bituminous macadam paving 30 mi. State Highway 12, 18 ft., $575,000; 1 in. bituminous surfacing 10.1 mi. State Highway 16, 16 ft., $78,500. R. Harrison, co. engr.

Tex., Georgetown—Williamson Co. making plans grading, etc., 7.11 mi. State Highway 74, 24 ft. $48,690. R. A. Nichols, co. engr.

Tex., Graham—Young Co. defeated $650,000 bonds, road construction. W. H. Reeves, co. judge. Noted Feb. 14.

Tex., Houston—Election Apr. 26, $500,000 bonds, paving various streets. J. C. McVea, city engr.

Tex., Jacksboro—Jack Co. making plans grading, surfacing with sledged stone base and bituminous topping 16.9 mi. State Highway 24, 18 ft. $300,000. G. W. Johnston, co. engr.

Tex., Jourdanton—Atascosa Co. defeated $929,000 bonds highway improvements. E. D. Scott, co. judge. Noted Feb. 7.

Tex., McKinney—Collin Co. had plans prepared and soon takes bids grading and surfacing with local crushed stone and shipped gravel 5.83 mi. State Highway 39, 18 ft. $45,800. F. W. Cawthon, co. engr.

Tex., Sweetwater — Nolan Co. making survey grading and bituminous macadam surfacing 31 mi. State Highway 1, 18 ft. $875,000. J. A. Focht, co. engr. Noted Nov. 1.

Okla., Comanche—Voted $35,307 bonds grading and paving 9 blocks 3rd St., 7,200 sq.yd. concrete, 5,700 lin.ft. curbing, 2,160 cu.yd. earth and 1,195 cu.yd. rock excav. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 6.

Okla., Grandfield — Plans grading and concrete paving 8 blocks 2nd, Oak and Simpson Sts., 76 ft. $25,000. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Okla., Okmulgee — Plans grading and paving East 7th St., Dist. 64, incl. 11,800 sq.yd. vertical fibre brick, 8,100 lin.ft. curbing, 3,600 cu.yd. earth excav. $70,000. T. J. Embree, Okmulgee, engr.

Okla., Pawhuska — Plans grading and paving Dists. 26 and 27, 9,200 sq.yd. concrete. $46,000. J. M. Buckley, Pawhuska, engr.

Okla., Perry—Noble Co. having surveys made grading and paving 3 mi. Oklahoma-Kansas-Texas Highway, 18 ft., 30,000 sq.yd. concrete, 20,000 cu.yd. excav. $60,000. V. B. Curl, Perry, engr.

Okla., Sapulpa—Plans grading and paving Adams St., 5,600 sq.yd. concrete 3,100 lin.ft. curbing, 1,700 cu.yd. earth excav. $28,000. F. E. Lawrence, Sapulpa, engr.

Wash., Raymond—City Council takes bids about Apr. 16, concrete paving Duryea and 3rd Sts., et al. $67,828.

Streets and Roads (Continued)

Calif., San Anselmo—Had plans prepared grading, asphaltic concrete paving and sewers in Ross, Woodland, Tunstead Aves., etc. $145,000.

Calif., San Francisco—Had plans prepared improving Ulloa St. between 15th and 17th Aves., incl. 1,079 lin.ft. concrete curb, 5,283 sq.ft. art stone walks, 6,930 sq.ft. vitr. brick and 27,606 sq.ft. asphaltic concrete; Ulloa St. between 17th and 19th Aves., incl. 24,893 sq.ft. asphaltic concrete. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Ont., Stratford—Plans 60,000 sq.yd. asphalt and concrete pavements on 14 streets. $200,000. A. B. Manson, City Hall, engr.

BIDS DESIRED

N. Y., Brooklyn—Apr. 3, by E. Riegelmann, boro pres., Boro Hall, asphalt paving Ave. J, Mansfield Pl., Bay Ridge, Belmont, Thatford and 19th Aves., Bay 10th, East 40th, West 12th, 40th and 48th Sts.; grading, curbing and flagging Ave. O, Canal, Schenectady and 19th Aves.; curbing, flagging and asphalt paving Lefferts Ave.; curbing and asphalt paving Mansfield Pl.

N. Y., Buffalo—Apr. 1, by Bd. Supervs. Erie Co. City Hall, concrete paving Military Rd. Part 2, Ebenezer-West Seneca Rd., Colvin and Elmwood Aves. To exceed $75,000. G. C. Diehl, 577 Ellicott Sq., engr.

N. Y., Geneva—Apr. 8, by Bd. Pub. Serv. about 19,000 sq.yd. pavement, various types. J. W. Brennan, supt.; adv. E. N.-R. Mar. 27.

N. Y., Poughkeepsie—Apr. 3, by Bd. Pub. Wks., at Eastman Park Mansion, paving, etc., Delafield, Mill, Conklin, Grant, Harrison, Thompson, Cannon and Franklin Sts.; storm sewer in Delafield St. T. F. Lawlor, supt.; adv. E. N.-R. Mar. 27.

N. Y., St. George—Apr. 2, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 93,500 gal. tar macadam binder and 93,500 gal. asphaltic macadam binder (hot application), on various streets.

New Jersey—Apr. 7, by State Hy. Dept., Trenton, rein.-con. paving Route 10, Sect. 2A, Broad Ave., in Ridgefield, Bergen Co.; Route 16, Sect. 7, Bayard Lane-Princeton, Mercer Co. A. L. Grover, secy.; adv. E. N.-R. Mar. 27.

New Jersey—Apr. 14, by State Hy. Dept., Trenton, rein.-con., paving Route 6, Sect. 13, Bridgeton to Marlboro, Cumberland Co., also Route 9, Sect. 12, Plainfield-Westfield, Union Co. A. L. Grover, secy.; adv. E. N.-R. Mar. 27.

N. J., Woodbury—Apr 10, by Bd. Freeholders Gloucester Co., concrete paving Woodbury-Blackwood Rd., Sect. 2, in Deptford and Washington Twps. W. C. Cattell, Merritt Bldg., co. engr.; adv. E. N.-R. Mar. 27.

Pa., Pottsville—Apr. 15, by City Council, paving and improving 35,000 sq.yd. streets; J. H. Strauch, city engr.; adv. E. N.-R. Mar. 27.

Va., Cape Charles—Mar. 31, by A. F. Dize, mayor, and Common Council at Council Chambers on Mason St. east of Plum St., 7,226 lin.ft. combined concrete curb and gutter, 4,856 cu.yd. earth excav., 12,817 sq.yd. pavement, sheet asphalt, asphaltic concrete, Kentucky rock, vitr. brick or rein.-con. G. H. Massey, 328 Dickson Bldg., Norfolk, engr.

West Virginia—Apr. 15, by State Rd. Comn., Charleston, highways in Clay, Fayette, Greenbrier, Monroe, Pocahontas, Wayne, Jackson, Lewis, Monongalia, Webster, Berkeley, Hardy, Mineral and Morgan Counties. E. B. Carskadon, secy.; adv. E. N.-R. Mar. 27.

West Virginia—Apr. 17, by State Rd. Comn., Charleston, highways in Nicholas, Mason, Putnam, Wyoming, Brook, Calhoun, Ohio, Barbour, Braxton, Gilmer, Preston, Hampshire, Jefferson, Pendleton and Randolph Counties. E. B. Carskadon, secy.; adv. E. N.-R. Mar. 27.

W. Va., Charleston—Apr. 1, by Kanawha Co. Court constructing roads in Union Dist.: grading and 14 ft. concrete paving 0.8 mi. Kanawha Two-Mile Branch, 14 ft., Project 134; 9 ft. concrete 1 mi. Wolf Penn Branch, Project 135; grading and paving 0.8 mi. Martins Branch, Project 136; 1 mi. Big Tyler Mountain-Cross Lanes Rd., Project 137, alternate bids on penetration macadam and concrete; concrete culvert over Tyler Creek on Lock Six Rd., Project 142. R. N. Moulton, clk. Noted Dec. 6.

W. Va., Charleston—Apr. 3, by H. C. Walker, city mgr., grading, curbing and paving 20,000 sq.yd. streets. H. L. Campbell, city engr.

Ga., Columbus—Apr. 1, by City Manager, paving Talbot Ave. $25,000. W. A. Richards, city mgr.

Fla., Fort Myers—Apr. 9, by Comrs. Lee Co., 8 mi. highway, Sect. 5, Estero to Collier Co. line, $40,000; 14 mi. Sect. 4, Fort Myers to Estero, $70,000; 10 mi. Sects. 2 and 2A, Olga to Hendry Co. line, $50,000; 6 mi. Sect. 1, Tice to Olga, and Sect. 3, Olga to Charlotte Co. line, $30,000, all foregoing hard surface paving on rock; 5 mi. Sect. 7, Crescent Beach Rd., $25,000; Sects. 6 and 6A, Pine Island Rd., incl. roads and bridges to Metlochat Bay, fill work and bridge across Metlochat Bay, also between Big and Little Pine Islands, $35,000. R. P. Ransom, Fort Myers, engr.

Louisiana—Apr. 3 (extended date), by State Hy. Dept., Reymond Bldg., Baton Rouge, 7.92 mi. State Project 393, Sect. B, Colfax-Pollock Highway, Grant Parish, and 8.35 mi. Sect. C and 7.41 mi. Sect. B, State Project 366. Winnfield-Chestnut Highway, Winn Parish. J. M. Fourmy, ch. engr. Noted Mar. 6 and 13.

O., Bexley (Columbus P. O.)—Apr. 11, by S. W. Roderick, village clk., paving 11,700 ft. Bexley Dr., Ardmore and Cassingham Rds., Elm and Roosevelt Aves., 24 ft., brick, asphalt or concrete. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs. Noted Mar. 20.

O., Cleveland—Apr. 2, paving Milverton Rd. S. E., Camden Ave. S. W., Sandusky Ave. S. E., East 130th, 137th, 135th, 139th, 143rd and 126th Sts., East 169th St. from Lake Shore Blvd. to Ozark Ave., East 169th St. from Waterloo Rd. to Ozark Ave. R. Hoffman, City Hall, engr. Noted Jan. 17.

O., Columbus—Apr. 1, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services, sewer connections and paving 735 ft. Wildwood Dr., 20 ft., asphaltic concrete, $10,686, 957 ft. Parkwood and Terrace Aves., 24 ft., brick $15,067, asphalt $13,299, 396 ft. Hibbert Ave., 20 ft., brick $6,391, asphalt $5,786, 2,870 ft. Park St. S., 40 ft., brick $13,540, asphalt $12,206; 9,712 ft. 6- to 12-in. sewer in alley east of Cleveland Ave., $20,576.

O., Dayton—Apr. 3, by Comrs. Montgomery Co. paving about 2 mi. Knecht and Cherry Drives, McCleary, Norman, Malvern, Radcliffe and Otterbein Aves., Kentucky rock asphalt, sheet asphalt or macadam. $118,500. W. O. Pease, co. surv.

O., Euclid — Apr. 7, stone or concrete sidewalks on 12 streets. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Michigan—Apr. 3, by State Hy. Dept., at dist. office Port Huron, grading and surfacing 6.649 mi. State Trunk Line Rd. 19-4, Sect. E, St. Clair Co., 32,909 cu.yd. excav., 71,160 sq.yd. concrete, asphalt or bituminous concrete, also State Trunk Line Rd. 19-4, Sects. B, C and D, St. Clair Co., 20,108 cu.yd. excav., 49,380 sq.yd. concrete, asphalt or bituminous concrete. G. C. Dillman, ch. engr.

Michigan—Apr. 8, by H. C. Flemming, resident engr. of State Hy. Dept., at dist. office Paw Paw, grading and surfacing 3.187 mi. State Trunk Line Rd. 17-14, Van Buren Co., 25,181 cu.yd. excav., 37,400 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—Apr. 9, by R. A. Beers, resident engr. of State Hy. Dept., at dist. office Marshall, grading and surfacing 0.893 mi. State Trunk Line Rd. 29-4, Calhoun Co., 13,850 sq.yd. concrete, asphalt or bituminous concrete.

Michigan—Apr. 10, by E. G. Fitts, resident engr. of State Hy. Dept., at dist. office Corunna, grading and surfacing 0.999 mi. State Trunk Line Rd. 47-5, Shiawassee Co., 14,954 sq.yd. concrete, asphalt or bituminous concrete.

Illinois — Apr. 4, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, 43.87 mi. of 18 ft. concrete, brick or asphalt paving incl. 5.6 mi. of 9 ft. widening; grading 29.95 mi. incl. 451,265 cu.yd. excav. and 2,093 yd. concrete; 10 bridges incl. 3,046 yd. concrete. C. R. Miller, dir.

Ill., Chicago—Apr. 2, by city, concrete paving 230,000 sq.yd. various streets. $1,500,000.

Ill., Urbana—Mar. 31, by Champaign Co., paving 6.238 mi. Sect. 38-15D, Routes 13 and 20, Ogden Twp.; 11.169 mi. Sect. 41-15d, Routes 12 and 12A, Sidney and Raymond Twps.; 4.545 mi. Sect. 43-15d, Route 17, Sadorus and Tolono Twps., 5.341 mi. Sect. 54-15d, State Route 4, Sidney and South Homer Twps., 5 rein.-con. slabs and 3 rein.-con. girders involving 936.1 cu.yd. concrete, on above routes. R. F. Fisher, co. supt. of highways.

Wis., Fond du Lac—Apr. 4, by G. Treleven, comr. Fond du Lac Co., concrete surfacing, etc. Brandon-Ripon Rd., Sect. A includes 44.320 sq.yd. concrete, 12,800 cu.yd. earth, 1,000 cu.yd. loose and 147 cu.yd. solid rock excav., etc., Sect. B, 47,220 sq.yd. concrete, 16,000 cu.yd. earth and 1,900 cu.yd. loose rock excav., etc. Wisconsin Hy. Comn., 444 Milwaukee St., Milwaukee, engrs.

Wis., Milwaukee—Apr. 3, by Dept. Pub Wks., paving 27,865 sq.yd., concrete, vibrolithic concrete or asphaltic concrete, grading 6,755 cu.yd., curbing and guttering 10,790 lin.ft. on 14th, Harrison, Logan, 9th, 23rd and American Aves, Locust, Montana 21st and 6 other streets. $115,000. J. Schwada, City Hall, engr.

Wis., Hudson—Apr. 5, by G. R. Hosford, city clk., paving 8,956 sq.yd. various streets, rein.-con., vibrolithic, vitr brick or asphaltic concrete. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, Minn., engr.

Wis., Milwaukee—Apr. 4, by Dept. Pub. Wks., paving 3 streets, 7,297 sq.yd. asphalt. $30,000. J. Schwada, city engr.

Ia., Oelwein—Mar. 31, 61,000 sq.yd. pavement, 36,800 lin.ft. combined curb and gutter, 16,500 cu.yd. extra excav., 1,360 lin.ft. 10 to 42 in. storm sewer. Edward B. Tourtellot, Oelwein, civil engr. Noted Dec. 20.

Ia., Storm Lake—Mar. 31, by R. A. Whealen, city clk., 16,500 sq.yd. concrete paving and 13,600 lin.ft. curbing. Noted Mar. 6.

Minn., Breckenridge—Apr. 8, by P. E. Truax, aud. Wilkin Co., 4.5 mi. Job 2401, State Rd. 3, 27,132 cu.yd. excav., 15,223 cu.yd. overhaul, etc.; repair bridge of 3 beam spans; 7 mi. Job 2402, State Rd. 6, 53,454 cu.yd. excav., 168,830 cu.yd. overhaul, etc. $25,000. M. Brataas, Breckenridge, engr.

Minn., St. James—Apr. 15, by J. E. Setrum, and. Watonwan Co., Job 2401, State Rd. 15, 27,000 cu.yd. excav., 79,000 cu.yd. overhaul, 2 concrete bridges each 30-ft. span; Job 2402, State Rd. 16, 56,000 cu.yd. excav., 165,000 cu.yd. overhaul, one concrete bridge, 30-ft. span, 700 ft. 12-in. 450 ft. 24-in. and 70 ft. 36-in. culvert pipe. $30,000.

Kan., Topeka—Apr. 24, by Shawnee Co., improving 10.5 mi. Federal Aid Project 141, 105,000 cu.yd. excav., 600 cu.yd. concrete in culverts. A. C. Lagerwall, co. engr. Noted Mar. 20.

N. D., Ashley—Apr. 3, by J. Billigmeier, aud. McIntosh Co, grading 12 mi. Federal Aid Project 216, 82,662 cu.yd excav., etc $28,000.

N. D., Cando—Apr. 2, by A. T. Mooney, aud. Towner Co., grading 13.3 mi. Federal Aid Project 179, 104,804 cu.yd. excav., etc. $32,000.

N. D., Fargo—Apr. 9, paving Job 174-24, in Dist. 3, widening Front St. between Bway. and 8th St., concrete or vitr. brick. $30,000. A. R. Watkins, city aud.

N. D., Lisbon—Apr. 9, by J. A. Gray, aud. Ransom Co., grading 6 mi. Federal Aid Project 124, 42,418 cu.yd. excav., etc. $25,000.

Wyoming — Apr. 3, by State Highway Dept., Cheyenne, Federal Aid Project 50 B, 3.8 mi. grading, surfacing, etc., 24 ft., Lingle-North Rd., Goshen Co., $35,000. F. W. Seward, Torrington, engr.; Federal Aid Project 48 A, 10.4 mi., Orin Junction-East Rd., Converse Co., $120,000. C. H. Bowman, Casper, engr.; 2.2 mi. Federal Aid Project 160 A, Shoshoni-North Rd., Freemont Co., $35,000. Z. E. Sevison, State highway engr.

Mo., St. Louis—Bush-Burns Realty Co., 1105 Chestnut St., taking bids grading, laying sewers, sidewalks, etc. on 5,500 ft. Union St., 30 ft., about $200,000. Private plans.

Mo., St. Louis—Apr. 25, by Bd. Pub. Serv., 208 City Hall, grading and 7 in. concrete surfacing 1,340 sq.yd. alleys in City Block 5405, $3,720; grading and surfacing Flora Pl., 25,915 sq.yd. Kentucky rock asphalt and 19,500 sq.yd. macadam, $45,320; grading, curbing and Kentucky rock asphalt surfacing 9,940 sq.yd. Dressell and Magnolia Aves., Finkman, Klock and San Francisco Sts., $63,720. W. W. Horner, city engr.

Tex., Bay City—Apr. 15, by W. C. McNabb, judge Matagorda Co., grading and shell surfacing 8.25 mi. State Highway 60, Federal Aid Project 416, 15 ft. $72,404. E. N. Gustafson, co. engr.

Tex., Decatur—Apr. 9, by S. M. Ward, judge Wise Co., grading, crushed stone surfacing and bridging 11.09 mi. State Highway 39, State Aid Project 471, 14 ft. $120,862. H. R. Smith, co. engr.

Tex., Denison—Apr. 5, by R. G. Gresham, city secy., resurfacing Gandy St., bitulithic, sheet asphalt, asphaltic concrete or Amiesite; paving Houston St., 3 in. brick 3 in. sand cushion. C. E. Hayden, city engr.

Tex., Italy—Apr. 3, by R. G. Dohoney, mayor, paving 19,100 sq.yd. various streets, 2½ or 3 in. brick on 5 in. concrete, standard asphaltic surface on 5 in. base, 6 in. rein.-con. or 6 in. plain concrete, 9,500 cu.yd. excav., 10,600 ft. curb and gutter. $80,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Tex., Kerrville—Apr. 8, by L. Wallace, judge Kerr Co., grading, gravel and crushed

Streets and Roads (Continued)

stone base and bituminous topping 5.83 mi. State Highway 41, Federal Aid Project 405, 18 ft. $65,632. W. E. Simpson, Natl. Bank of Commerce Bldg., San Antonio, engr.

Okla., Comanche—Mar. 31, by L. C. Randel, city clk., grading and widening 9 blocks 3rd St., 7,200 sq.yd. concrete, 5,700 lin.ft. curbing, 2,610 cu.yd. earth and 1,195 cu.yd. rock excav. $35,307. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 20.

New Mexico—Apr. 15, by State Highway Comn., Santa Fe, Federal Aid Project 60-A, 4.787 mi. between Rowe and Fulton, San Miguel Co., 22,148 cu.yd. excav., 5,566 cu. yd. Class 1 borrow, 1,800 sta.yd. overhaul, 8,583 cu.yd. one course crushed stone surfacing, 7½ in. center, feather-edge, 80,300 lb. reinforcing, 25,545 ft. timber superstructure; Federal Aid Project 133, 1.618 mi. west of Silver City, Grant Co., 13,820 cu.yd. excav., 2,519 cu.yd. Class 1 borrow, 2,457 sta.yd. overhaul, 3,757 cu.yd. 2 course crushed stone surfacing, 12,545 lb. reinforcing; Federal Aid Project 139, 6.988 mi. south of Deming, Luna Co. (3½ mi. will be tentatively accepted and taken over by the State for maintenance), 4,690 cu.yd. Class 1 excav., 11,692 cu.yd. Class 1 borrow, 8,690 cu.yd. gravel surfacing mesa and standard types; Federal Aid Project 136, 1.979 mi., incl. 300 ft. steel span bridge over Rio Puerco on Gallup-Los Lunas Rd., Valencia Co., 9,884 cu.yd. Class 1 excav., 4,932 cu.yd. Class 1 borrow, 7,624 sta.yd. overhaul, 3,981 cu.yd. 2 course gravel surfacing, bridge, 624 cu.yd. concrete, 87,350 lb. reinforcing, 1,080 lin.ft. concrete piling, 155 tons structural steel, 1,161 cu.yd. wet excav.; Federal Aid Project 18, 19.492 mi. between Carlsbad and Lea Co. Line, Eddy Co., 19,634 cu.yd. 1 course caliche surfacing; Federal Aid Project 28 (reopened), 3.463 mi. near Fort Bayard, Grant Co., 1,185 cu.yd. gravel shoulders, 1,524 cu.yd. cement shoulders; Federal Aid Project 57, (reopened), 14.242 mi. between Acme and point 6.6 mi. northeast of Roswell, Chaves Co., reopened for 2.4 mi. gravel surfacing, 10,783 cu.yd. Class 1 excav., 1,335 cu.yd. Class 1 borrow, 3,033 cu.yd. 2 course gravel surfacing, 3,848 lb. reinforcing, bridges; 122 cu.yd. concrete, 12,708 lb. reinforcing, 14,992 ft. wooden superstructure; Federal Aid Project 137, 5.257 mi. between Portales and Delphos, Roosevelt Co., 8,996 cu.yd. Class 1 excav., 12,378 cu.yd. Class 1 borrow, 13,661 cu.yd. 12 in. caliche surfacing (2 course 6 in. each), 3,885 lb. reinforcing for box culverts, 1,679 cu.yd. concrete. J. A. French, state highway engr. Noted Mar. 13.

Idaho—Apr. 5, by Dir. of Highways, Boise, Federal Aid Project 71 and 81, Bonner Co. P. C. Oxley, Lewiston, dist. engr.

Washington—Apr. 8, by State Hy. Dept., Olympia, grading and gravel surfacing 2.11 mi. State Road 9, Uncas-Port Townsend Rd., Jefferson Co., 7.6 mi. State Road 22, Harvey-Clifford Rd., Stevens Co., 3.4 mi. State Road 5, Ajlune-Riffle Rd., Lewis Co., 3.9 mi. State Road 4, Anglin Rd., Okanogan Co.; concrete paving 4.2 mi. Anacortes Highway, Skagit Co. J. Allen, Olympia, engr.

Wash., Tacoma—Apr. 3, by R. Harrison, comr. Pub. Wks., paving Portland Ave. from Bay to 38th Sts., 15,840 sq.yd. 7-in. concrete, 8,538 lin.ft. curbing. C. E. Putnam, city engr. $74,415.

Ont., Seaforth—Mar. 29, by J. A. Wilson, clk., improving Main St., 9,830 sq.yd. asphalt pavement on concrete, 5,000 lin.ft. concrete curbing. $40,000. T. R. Patterson, Goderich, engr.

Ont., Toronto—Mar. 28, by E. A. James, engr., 57 Adelaide St. E., constructing gravel, waterbound macadam, bituminous penetration, and asphalt on concrete roads, furnishing stone, gravel, road tar, asphaltic oils, calcium chloride, etc., for Toronto & York Rds. Comn. $150,000.

BIDS RECEIVED

N. Y., Albany—Bd. Contr. & Supply, Mar. 17, curbing, laying sewers, concrete walks and repaving Western Ave., redressed granite blocks on concrete, from M. F. Dollard, 36 State St., $40,752, engrs. est. $50,000; repaving Madison Ave., from P. W. Mulderry, 5 St. Joseph Terrace, $265,761, engrs. est. $275,000; improving Lincoln Ave., from E. B. Stevenson, 376 Western Ave., $20,943, engrs. est. $25,000.

N. Y., Buffalo—Paving with (a) asphalt (b) brick (1) Roseville St. (2) Barton St. (3) Cambridge (4) Crystal Ave. (5) Hannah St. (6) Military Rd. (7) Rapin Pl. (8) Simon St. (9) Winspear Ave. (10) Weiss St., from Rock Asphalt & Constr. Corp., Morgan Bldg., (a1) $14,853 (a3) $43,199 (a5) $13,380 (a10) $11,371; H. P. Burgard Co. Fillmore Ave., (a2) $11,520 (a4) $46,879 (a6) $11,462 (a7) $12,759 (a8) $18,759 (a9) $41,256; B. F. Spire, 24 Colonial Circle, (b3) $47,900 (b6) $13,130 (b10) $12,837; Erie Contg. Co., Morgan Bldg., (b4) $49,603 (b5) $15,237 (b8) $20,867.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Mar. 17, grading, curbing, laying sidewalks and sheet asphalt paving Buchman Ave., sheet asphalt paving 42nd St., also 82nd St., from Highway Impvt. & Repair Co., $6,300, $36,430 and $8,280 respectively; curbing, laying sidewalks, etc. on Kissena Blvd., from Peace Bros., Inc., 57 North Laurence St., Flushing, $1,984; grading Winslow Pl., etc., also grading, laying sidewalks, etc., on 42nd St., from A. Pegno, 380 Freeman Ave., Astoria, $1,294 and $10,125 respectively; grading gutter space in Winslow Pl., etc., from Welsh Bros. Contg. Co., 32 Queens St., Astoria, $1,480; grading, curbing, laying sidewalks, etc. on 82nd St., and grading sidewalk space on 98th Ave., from H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, $4,792 and $288 respectively. Noted Mar. 13.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Mar. 24, repaving 1st Ave., granite block, from W. J. Fitzgerald, 547 West 45th St., $464,051; repairing wood block pavement in railroad area, from Casper Helbock Co., Harlem River and 150th St., $54,100. Noted Mar. 20.

N. J., Asbury Park—Paving 6,035 sq.yd. Bangs and Emory Sts., from Union Paving Co., 30th and Locust Sts., Phila., $28,460. Noted Mar. 6.

Fla., Miami—Improving Highway 213 to 223 inclusive, incl. 85,000 lin.ft. curbing, 85,000 lin.ft. guttering, 156,000 sq.yd. bituminous macadam, from T. B. McGahey Co., Miami, $351,500.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, 8 mi. State Aid Project 142 B and C, Morehouse Parish, incl. approach to bridge 95 ft. long, from W. L. Wimberly, Church Point, $75,000.

Ky., Burgin—Kentucky Hydro-Electric Co., M. E. Taylor Bldg., Louisville, 4,280 ft. approaches to Kennedy Mills Bridge over Dix River, near here, from Tevis & Ingram, Danville, $25,200. Noted Mar. 6.

O., Akron—W. F. Peters, dir. Pub. Serv., Mar. 17, grading, laying sidewalks and cindering 1,800 cu.yd. Sawyer Ave., from M. Kalain and B. F. Burk, 573 Wilson St., $18,230, engrs. est. $21,736. Noted Mar. 6.

O., Cleveland—Cuyahoga Co., Mar. 19, grading, guttering and 8 in. concrete paving 10,406 sq.yd. Highland Rd. 3, from Ohio Constr. Co., Hunkin-Conkey Bldg., $43,676. Engrs. est. $48,300. Noted Mar. 13.

Indiana—State Hy. Comn., Indianapolis, Mar. 18, macadam paving 3.7 mi. and surfacing treating 17 mi. road from near Greenville to New Albany, in Floyd and Harrison Counties, from C. L. Hart, Boonville, $30,490. Noted Mar. 6.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, Mar. 21, paving 18 ft. concrete, **(13.99 mi. 1-35, 36 and 37, Comb. A, Johnson, means 13.99 mi. Route 1, Sects. 35, 36 and 37, Combination A, Johnson Co.)**, 13.99 mi. 1-35, 36 and 37, Comb. A, Johnson, from C. E. Hamilton, Carbondale, $412,500; 4.5 mi. 1-7 Edwards, and 6.4 mi. 12-3 Lawrence, from H. A. Carpenter, Terre Haute, Ind., $90,348 and 147,796 respectively; 9.09 mi. 2-55 McLean and DeWitt, from McMahon Constr. Co., Rochester, Ind., $188,688; 18.08 mi. 2-68, 69 and 70, Comb. C, Marshall and LaSalle, from Powers Thompson Constr. Co., Joliet, $376,200; 12.62 mi. 3-82 and 83, Comb. 1, Morgan and Scott, and 14.06 mi. 2-71 and 72, Comb. D, LaSalle, from Henkle Constr. Co., Mason City Ia., $274,400 and $259,500 respectively; 0.55 mi. 3-44, Schuyler, and 3.58 mi. 31-9, Brown, from List & Gifford Constr. Co., 415 Ry. Exch., Kansas City, Mo., $13,647 and $91.189 respectively; 11.58 mi. 3-29, 32 and 34, Comb. G, Warren, 9.18 mi. 3-82, Morgan, and 7.5 mi. 40-4, Carroll, from Cameron & Joyce Co., Keokuk, Ia., $224,922, $211,895 and $163,633 respectively; 0.86 mi. 3-67, Monroe, from Keely Bros. Contg. Co., 2100 State St., East St. Louis, $34,438; 4.35 mi. 3-60, Madison, from Edwardsville Constr. Co., Edwardsville, $97,970; 6.82 mi. 3-59, Jersey and Madison, from Nelson Bros., Jerseyville, $147,408; 1.84 mi. 9-34, McDonough, from J. Kesl & Son, Edwardsville, $42,409; 3.8 mi. 12-24, Clinton, from O. Allenthorp Constr. Co., Casey, $67,939; 6.4 mi. 12-2, Lawrence, from J. W. Etchison Co., Casey, $145,191; 7.16 mi. 13-23, St. Clair, from H. H. Hall Constr. Co., Murphy Bldg., East St. Louis, $159,767; 9.43 mi. 26-7, Ogle and Lee, from J. J. Dunnegan Constr. Co., Shenendoah, Ia., $205,917; 6.39 mi. 46-461 Cook, from Andrew Ward & Son, Oak Glen, $192,131; 3 mi. 46-463 Cook, from G. H. Summerville, Chicago Heights, $81,399; 4.97 mi. 46-464 Cook from Prouger & Block, Blue Island, $176,109. Grading 1.67 mi. 2-54A, DeWitt, 26,650 yd. excav., from Lee Gallagher, $12,072. 1.64 mi. 26-8A, Lee, from J. B. Drew, Tampico, 24,050 yd. excav., $17,572. Noted Mar. 13.

Ill., Monticello — Paving 2 sections of State Aid Rd. 2, 10,041 sq.yd. concrete, 19,955 sq.yd. earth shoulders and 8,264 cu.yd. earth excav., from Carmme & Lyttle, Sullivan, $25,101. Noted Feb. 28.

Wis., West Allis—Paving, etc. 105,500 sq.yd. various streets, from R. Reisinger & Co., 464 Oakland Ave., Milwaukee, one course concrete $2.30 to $2.39 per sq.yd.; from Northern States Contg. Co., Hamm Bldg., St. Paul, Minn., vibrolithic concrete $2.40 per sq.yd. Noted Mar. 6.

S. D., Sioux Falls—Paving 23 blocks (a) sheet asphalt on concrete or crushed stone (b) bituminous concrete on concrete or crushed stone, (c) concrete, from Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City, Ia., (a) $2.35 (b) $2.35 (c) $1.95. Noted Feb. 28.

Tex., Angleton — Brazos Co., grading 10.88 mi. State Highway 19, Federal Aid Project 367-B, 24 ft., from D. H. Buchanan, Temple, $31,286. Surfacming to be let later Noted Mar. 6.

Tex., Canton—Van Zandt Co. grading and gravel surfacing 7.14 mi. State Highway 15, Federal Aid Project 363-C, 9 and 18 ft., from T. F. Larkin & Co., 3927 Bowser St., Dallas, $136,047. Noted Mar. 6.

Tex., Wichita Falls—Wichita Co. grading and 1 course rein.-con. surfacing 7.43 mi. State Highway 30, Bates Sect., Federal Aid Project 432, 12,169 cu.yd. earth excav., 78,809 sq.yd. concrete, etc., from L. E. Whitham & Co., Wichita Falls, $223,289. Engrs. est. $263,000 incl. 10% for engineering and contingencies. Noted Jan. 2.

Calif., San Diego—See "Unclassified" under Pier.

Calif., Torrence — Improving Western Ave., from H. G. Feraud, 1213 Detwiler Bldg., Los Angeles, 159,400 sq.ft. grading 0.035, 159,400 sq.ft. 6 in. asphaltic concrete $0.299, 2,000 ft. curb and gutter $1.645.

CONTRACTS AWARDED

Connecticut—State Hy. Dept., Hartford, 18,040 ft. 7-in. native stone macadam on Wales Rd., and 22,000 ft. 7-in. native stone macadam on Monson Rd., in Stafford, to M. A. Gammio Constr. Co., Inc., 728 Valley St., Providence, R. I., $116,341 and $92,817 respectively; 7,745 ft. native stone waterbound macadam on Noank Groton Long Point Rd., in Groton, to J. D'Aloia, 408 Willow St., Woonsocket, R. I., $26,795, 19,923 ft. 8-in. native stone macadam on Norwich Hadlyme Rd., on Montville, and 15,720 ft. 8-in. native stone macadam on Morwich-Hadlyme Rd., in Salem, to D. Arrigoni, Middletown, $122,947 and $83,233 respectively; 21,910 ft. 7-in. waterbound macadam on Norwich-Hadlyme Rd., in Salem and East Haddam, to L. Suzio Constr. Co., State and Brook Sts., Meriden, $147,901; 21,800 ft. 8-in. rein.-con., Type B, on Boston Post Rd., in Westbrook and Old Saybrook, to F. Arrigoni & Sons, 624 Main St., Middletown, $180,606; 16,835 ft. 8-in. rein.-con. in Waterford, to Waterbury Concrete Constr. Co., 110 Grand St., Waterbury, $113,388; 11,098 ft. 8-in. rein.-con. on Boston Post Rd., in East Lyme, to Immick Co., State St., Meriden, $111,728; 18,765 ft. 7-in. native stone macadam on Stafford Union Rd., in Union, to Miller Bros. Constr. Co., Hartford, $118,434; 17,016 ft. 8-in. rein.-con., in Old Lyme, to Sperry Eng. Co., 450 Grand St., New Haven, $132,325. Noted Mar. 13.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Borough Asphalt Co., 1301 Metropolitan Ave., sheet asphalt paving, Empire Blvd. $7,208, Hopkinson Ave. $8,495, Osborn St. $5,749, Riverdale Ave. $18,699, Banker St. $20,405; to Cranford Co., 52 9th St., sheet asphalt paving Delamere Pl. $9,625, East 9th St. $9,306, Ave. L $17,165, West 8th St. $18,680, 11th Ave. $3,967, 43rd St. $8,435, 63rd St. $10,837, 68th St. $5,871, 76th St. $8,977, curbing, flagging and sheet asphalt paving 58th St. $9,199, curbing and sheet asphalt paving 81st St. $8,238; to J. Meehan & Son, 74 Cortlandt St., New York, paving with grade 1 granite Van Dam St. $12,862; to W. J. McHale Contg. Co., 1250 Jefferson St., curbing and flagging Delamere Pl. $2,887; to Interstate Contg. Co., grading, curbing and flagging Empire Blvd. $8,801, East 9th St. $4,078, 71st St. $4,239; to Galecor Contg. Co., 507 Greenwich St., New York, grading, curbing and flagging 76th St. $3,543. Noted Mar. 6.

N. Y., Gloversville—Bd. Supervs. Fulton Co. will resurface highways, by day labor, under supervision of R. Sammons, co. engr. $59,000.

N. Y., Herkimer—Bd. Supervs. Herkimer Co., concrete paving 1.16 mi. Rd. 50 in Frankfort, also 7.01 mi. Sect. 1 Rd. 7 in

Streets and Roads (Continued)

Herkimer and Fairfield, to F. M. Gallo, 207 South Bellinger St., $21,470 and $114,521 respectively, engrs. ests. $21,610 and $114,-521 respectively; 1.7 mi. Rd. 47 in Russia, and Rd. 43 in Columbia, to L. Mayersohn, 89 South Man. Blvd., Albany, $25,684 and $67,373 respectively, engrs. ests. $27,394 and $72,688 respectively; 9.6 mi. Rd. 36 in Salisbury and Norway, and Rd. 46 in German Flats, Columbia and Warren, to Newport Constr. Co., 200 North Main St., $114,-467 and $74,121 respectively, engrs. ests. $145,686 and $82,149 respectively; 2.61 mi. Rd. 45 in Little Falls and Danube, to H. G. Hotchkiss, Jr., Rochester, $46,528, engrs. est. $46,765.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, laying sidewalks and crosswalks on Randall Ave., grading, building inlets and receiving basins in Metcalf and Fenton Aves., to Hanratty Contg. Co., $20,573, $7,461 and $10,796; curbing, laying sidewalks and crosswalks on Houghton Ave., to Interstate Contg. Co., Inc., $6,876; grading, curbing, laying sidewalks, etc. on East 227th St., to L. Di Minna, $33,866; grading, curbing, laying sidewalks, etc. on East 171st St., and sheet asphalt paving Webb Ave., to Asphalt Constr. Co., 208 Bway., $45,462 and $24,341 respectively; grading, curbing, laying sidewalks, etc. on West 180th St., sheet asphalt paving Grant, Steuben and Findlay Aves., and bituminous concrete paving Elliot Pl. and Mounteden Ave., to Interboro Asphalt Co., 2306 Creston Ave., $44,947, $56,976, $15,148, $14,983, $19,943 and $70,920 respectively; granite block paving Cauldwell Ave., to Astoria Contg. Co., 169 Hunter Ave., Long Island City, $25,514. Noted Mar. 20.

Pennsylvania—State Hy. Dept., Harrisburg, 16,770 ft. Route 113, Fayette Co., to Colonial Constr. Co., Wabash Bldg., Pittsburgh, $169,288; 28,212 ft. Route 212, Tioga Co., to A. W. Hinaman, Canton, $295,921; 17,164 ft. Application 2092, Venango Co., to A. V. Baldwin, Coraopolis, $151,496. Noted Mar. 13.

Md., Baltimore—Bd. Awards, grading, curbing and paving streets listed in Constr. 250-OANA, 21,150 sq.yd. asphalt, 1,400 sq. yd. vitr. brick, to Amer. Paving Co., Montebello Ave., $91,600. Noted Mar. 20.

W. Va., Bluefield—Paving approximately 6 mi. various streets, one course concrete, to Murman Co., Knoxville, Tenn., and Bodenhamer & Tabor, Bluefield. Engrs. est. $400,000. Noted Feb. 7.

W. Va., Clarksburg—Grading, vitr. brick paving, sewering, etc. West Pike St., to P. S. Horner, Clarksburg, $31,008. Noted Mar. 6.

W. Va., Huntington—Paving with vitr. brick 11th and Thornburg St., to G. Pence, 1454 4th Ave., $41,660; 10th Ave. and 24th St., to Harrison & Dean, Walton Bldg., $35,852. Noted Feb. 7.

Fla., Lake Worth—Improving Love Ave., etc., to Greynolds & Monroe, West Palm Beach, 7,011 cu.yd. grading $6,310, 25,095 sq.yd. paving $27,354, 19,360 sq.yd. refinishing $9,680, 44,455 sq.yd. oiling $5,557, total $48,900; Lucerne St., etc., to Keystone Constr. Co., West Palm Beach, 10,-256 cu.yd. grading $9,230, 42,655 sq.yd. grading $46,495, 42,655 sq.yd. oiling $5,332, etc., total $61,987.

Fla., West Palm Beach—Palm Beach Co. oiling 660,000 sq.yd. roads, ½ gal. oil to square yard, to A. O. Greynolds, West Palm Beach, $0.055.

Ala., Anniston—Asphalt paving 2 mi. Christian Ave., Noble and East 10th St., 30 ft., to Morgan-Hill Paving Co., Woodward Bldg., Birmingham, $151,000.

Miss., Iuka—Tishomengo Co., grading, surfacing and bridging 16.886 mi. Federal Aid Project 164, 18 ft., to Bearden & Scott, Sparta, Tenn., $203,599. Noted Feb. 21.

Miss., Starkville—Oktibbeha Co. grading, gravel surfacing and bridges over 20 ft. span on 10.562 mi. Federal Aid Project 167, 18 ft., to A. L. Dumes, Copleville, Tenn., $99,393. Noted Feb. 21.

Ky., Louisville—Bd. Pub. Wks., paving 32nd St., Garland and Central Aves., etc., to K. A. Barker, Floyd and Lee Sts., $42,000. Noted Mar. 6.

Ohio—Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 3.365 mi. Sect. "E-2" Lima-Bellefontaine Rd., Allen Co., Kentucky rock asphalt, to W. Sousley, Ada, $83,686; 0.971 mi. Sect. "New Bremen," also 0.971 mi. Sect. "New Bremen" Piqua-St. Marys Rd., Auglaize Co., rein.-con., to Churchill-Enck Co., Lima, $32,685 and $22,836 respectively; 0.495 mi. Sect. "Owensville" Milford-Hillsboro Rd., Clermont Co., bituminous macadam asphalt, to Craig & Jordan, Blanchester, $10,-026; 3.17 mi. Sect. "C" Youngstown-East Liverpool Rd., Columbiana Co., bituminous concrete, to General Asphalt Paving Co., 1268 Dueber Ave. S. W., Canton, $26,152; 2.68 mi. Sect. "A" Youngstown-East Liverpool Rd., Mahoning Co., bituminous macadam, tar, to C. J. Brown & Taylor, Farmdale, $59,693; 3.275 mi. Sect. "A" and 2.287 mi. Sect. "B-1" Marion-Mt. Gilead Rd., Marion Co., bituminous macadam, asphalt, to L. L. Clymer, Bluffton, $62,805 and $46,702 respectively; 6.403 mi. Sects. "C, D and E-2" Ft. Recovery-Minster Rd., Mercer Co., rein.-con., to Hinton & Smalley, Celina, $158,479; 1.045 mi. Sect. "Camion" Eaton-Hamilton Rd., brick, and 2.73 mi. Sect. "D" Eaton-Greenville Rd., plain concrete, both Preble Co., to Eldorado Paving Co., Eldorado, $40,574 and $80,826 respectively; 1 mi. Sect. "A" Portsmouth-Hillsboro Rd., Scioto Co., bituminous macadam, asphalt, to W. C. Brown, Chillicothe, $44,731; 1.56 mi. Sect. "C-1" Akron-Massillon Rd., and Sect. "A" Akron-Canal-Fulton Rd., brick, Summit Co., to Guilford-Wright Co., Akron, $82,197 and $19,735 respectively; 0.402 mi. Sect. "A" Cincinnati-Columbus Rd., Warren Co., bituminous macadam, asphalt, to Craig & Jordan, Blanchester, $4,410; Sects. "E and F" Akron-Wooster Rd., Wayne Co., brick, to Studebaker & Son, Greenville, $163,661; concrete curbing 1.85 mi. Sect. "M" Chicago-Buffalo Rd., Ashtabula Co., to C. F. Willmore, Middletown, $13,670. Noted Mar. 20.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 2.049 mi. Sect. "A" Akron-Cleveland Rd., Cuyahoga Co., brick, to J. L. McCormick, Ravenna, $141,973; Sect. "J" Cuyahoga Falls-Kent Rd., Summit Co., sheet asphalt, to McCort Constr. Co., Akron, $51,943. Noted Mar. 20.

O., Akron—W. F. Peters, dir. Pub. Serv. brick paving 1.25 mi. East Market St., 30 ft., to C. Olson Contg. Co., 501 Herberich Bldg., $87,103, engrs. est. $90,000; ¾ mi. Garfield St., 30 ft., to E. and W. M. McShaffrey, 574 Rhodes Ave., $28,377, engrs. est. $30,000; Tyner St., to Hollinger & Davidson, 435 South Bway., $26,837, engrs. est. $28,000. Noted Mar. 6.

O., Cincinnati — Concrete paving 9,400 sq.yd. Vineyard Pl., to Byrnes & Conway Co., 32 Bodman Bldg., $26,211.

O., Cleveland — Laying 569,000 lin.ft. stone sidewalks in southerly, northerly, westerly and West Park Sidewalk Dists., to Ohio Quarries Co., Union Trust Bldg., $151,829. Noted Mar. 13.

O., Columbus—W. H. Duffy, dir. Pub. Serv., to Gaty Constr. Co., 3720 North High St., grading, laying necessary water services, sewer connections and paving 204 ft. alley north of 14th Ave., 20 ft., $1,400, 332 ft. alley north of Linwood Ave., 20 ft., $2,204, both concrete; to R. J. Dienst, 480 South 5th St., 376 ft. alley west of Wagner St., 20 ft., concrete, $2,586; to Cleveland Trinidad Paving Co., Grand Theater Bldg., 1,858 ft. Huron Ave., 20 ft., $18,560, 905 ft. Guernsey St., 24 ft., $13,301, 1,400 ft. Olive St., 24 ft., $14,065, 1,500 ft. Roys Ave., 24 ft., $25,181, 1,500 ft. Palmetto St., 24 ft., $15,002, Westmoor Ave. $22,137, all with asphalt. Noted Mar. 13.

O., Dayton—Paving Yuncker Ave., brick, to L. A. Marshall, 302 Ludlow Bldg., $39,-954; Delaware and Herman Aves., sheet asphalt, to Republic Asphalt Paving Co., 801 Schwind Bldg., $20,710 and $10,411 respectively; Purcell Ave., brick, to E. A. Smith, 702 Commercial Bldg., $27,470. Noted Mar 13.

O., Newark—Resurfacing 0.5 mi. Granville St., 40 ft., to T. D. Keyes & Sons, Newark, $27,456. Engrs. est. $28,000. Noted Mar. 6.

O., Steubenville—Paving 4th St., natural lake asphalt, to Federal Asphalt Co., Main and D Sts., Hamilton, $60,068.

Illinois—Following are contracts awarded by Dept. Pub. Wks. and Buildings, Div. of Highways, Springfield, from Jan. 1 to Mar. 15; concrete paving (9.6 mi. 24-3 and 4, Christian means 9.6 mi. Route 24, Sects. 3 and 4, Christian Co.) to Stevens Bros., St. Paul, Minn., 9.6 mi. 24-3 and 4, Christian, $191,770; to W. C. Meneely Co., Decatur, 32 mi. 2-Div. B, Christian, Shelby and Macon, $622,910; to J. Kesl & Son, Edwardsville, 11.1 mi. 2-10 and 11, Clay, $219,000, and 8.54 mi. 9-33 McDonough, $177,615; to Sutton & Moore, Canton, 2.83 mi. 31-19, Fulton, $61,742; to Cameron, Joyce & Co., Keokuk, Ia., 5.61 mi. 9-45 Peoria, $13,983, and 5.04 mi. 9-26 Hancock, $109,599; to L. S. Kuhn, Bloomington, 6.3 mi. 2-63, Woodford, $131,137; to Northern Illinois Supply Co., Rockford, 0.78 mi. 19-88A, Cook, $16,797; to Mautz & Oren & C. J. Moritz, Inc., Effingham, 26.44 mi. 2-Div. A, Christian, Shelby and Fayette, $575,948; to A. J. Parrish, Paris, 15.61 mi. 1-22, 23 and 24, Crawford and Clark, $309,-021; to R. F. Conway Co., 133 West Washington St., Chicago, 25.14 mi. 2-Div. C, LaSalle and Lee, and 22.14 mi. 18-A, Bureau, $926,000; to Indiana Road Paving Co., Rochester, Ind., 3.45 mi. 16-16, Christian, $79,296; to Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia., 15.52 mi. 12-30, 31, 32, A-1, St. Clair, $339,500; to Cast Stone Constr. Co., Eau Claire, Wis., 12.07 mi. 8-20 and 21, Iroquois, $243,389; to C. W. Clark Co. 511 Terre Haute Trust Bldg, Terre Haute, Ind., 5.97 mi. 16-1, Edgar, $96,632, and 7.31 mi. 16-2, Edgar, $147,259. Grading to M. Frazier, Louisville, 0.62 mi. 12-10A, Clay, $3,568; to E. P. Olson, 2901 Monterey St., St. Joseph, Mo., 2.24 mi. 3-40A, McDonough, $11,703, 4.08 mi. 3-41A, McDonough, $47,407, 1.99 mi. 3-42A, Schuyler, $32,915; to M. Edwards McGuire, Indianapolis, Ind., 2.1 mi. 2-20A, Fayette and Shelby, $8,671; to Frazier Davis Constr. Co., Arcade Bldg., St. Louis, Mo., 0.47 mi. 12-30A, St. Clair, $9,126; to Gaines Bros. Co., Fairland, Okla., 3.98 mi. 16-20A, Montgomery, $30,485. Noted Nov. 1 and 29, and Feb. 21.

Ill., Bloomington — Paving Allen St., 11,211 sq.yd. brick on concrete, to Ward & Bros. Co., Bloomington, $42,000; 750 lin. ft. 6-in. water main in Jackson St., to J. P. Lowry, Bloomington, $2,400; 338.5 ft. 12-in. vitr. sewer in Bissell St., to W. Sprague, $618. Engrs. est. $45,000.

Ill., Edwardsville — Grading and concrete paving 7,300 ft. various streets, to A. Fahrig, Edwardsville, $75,000; sidewalks to G. R. Hytru, Edwardsville, $3,900. Engrs. est. $75,000.

Ill., Peoria—Richwood Twp., grading and surfacing with 6-in. concrete 11,842 ft. Prospect Ave., 18 ft., to B. P. Walters, Peoria, $47,309. Noted Mar. 6.

Ill., Rockford—Winnebago Co., paving 3.9323 mi. Sect. X-15d, State Aid 14, 18 ft. wide, portland cement concrete, to G. Welch, Beloit, Wis., $91,212. Engrs. est. $91,628.

Wis., Elkhorn—Walworth Co., concrete surfacing, etc., Walworth-Darien Rd. Sects. A and B, also Big Foot-Walworth Rd., to P. T. Fess, 1840 Yahara Pl., Madison, $130,-854, $8,295 and $57,897 respectively.

Wis., Fond du Lac—Fond du Lac Co., concrete surfacing, etc., Waupun-Brandon Rd., State Trunk Highway 29, to Morris Martin Constr. Co., Berlin, $84,043; Fond du Lac-Calumetville Rd., State Trunk Highway 55, to Jorgenson Constr. Co., Denmark, $86,946. Noted Mar. 6.

Wis., Kenosha—Paving various streets, 33,700 sq.yd. asphalt and 22,900 sq.yd. asphaltic concrete, to H. J. Glover & Son, Holland, Mich., $121,029 and $75,577 respectively; 40,400 sq.yd. rein.-con., to Brennan & Bounsell, 709 Exch. St., Kenosha, $130,231.

Wis., Juneau—Dodge Co. Hy. Comn., grading and concrete surfacing Project A, Oconomowoc-Mayville Rd., Projects E and F, Mayville-Woodland Rd., to P. C. Koreck, 1000 Humboldt Pl., Milwaukee, 16,353 cu. yd. earth excav. $0.80, 36,248 cu.yd. earth excav. $0.60, 33,506 sq.yd. concrete $1.22, 93,947 sq.yd. concrete $1.32, etc., total $261,912; Project B, Oconomowoc-Mayville Rd., to J. F. Bloomer, Appleton, 31,832 cu. yd. earth excav. $0.70, 116,689 sq.yd. concrete $1.08, etc., total $214,008; Project D, Oconomowoc-Mayville Rd., to Lampert Constr. Co., 104 Main St., Oshkosh, 15,294 cu.yd. earth excav. $0.81, 67,892 sq.yd. concrete $1.23, etc., total $128,140; Project G, Hustisford-Horicon Rd., to Milwaukee General Constr. Co., 856 8th Ave., Milwaukee, 10,418 cu.yd. earth excav. $0.75, 10,389 sq.yd. concrete $1.40, etc., total $108,718; Project H, Hustisford-Lebanon Rd., to Cherney Constr. Co., Francis Creek, 10,438 cu.yd. earth excav. $0.80, 35,324 sq.yd. concrete $1.25, etc., total $59,985. Noted Mar. 6.

Wis., Kilbourn—Paving, etc. Washington Ave., La Crosse and Eddy Sts., vibrolithic concrete, to O'Dea & Shafer, 1019 Oregon St., Madison, $47,575. Noted Mar. 27.

Wis., Port Washington — Ozaukee Co. concrete surfacing, etc., Brown Deer-Cedarburg Rd., Sect. A, to McGucken-Vander Heyden Co., 314 Fowler St., Milwaukee, $118,793; Sect. B, to Manitowoc Constr. Co., 826 South 8th St., Manitowoc, $56,646. Noted Mar. 6.

Wis., Racine—Racine Co. will gravel surface 23 mi. various roads, by day labor. W. A. Bechthold, Courthouse, comr.

Wis., Sheboygan—Will pave 60,000 sq. yd. Maryland, North 20th, Cooper, Union and North 7th Sts., 25 ft. concrete, concrete curbs and gutters, by day labor. C. U. Boley, City Hall, engr.

Wis., White Fish Bay—Paving various streets, vibrolithic concrete, to Froemming Bros., 1326 Humboldt Ave., Milwaukee, 21,-950 sq.yd. $2.71 and 2,700 sq.yd. $2.66. Noted Mar. 13.

Ia., Iowa Falls—Improving 45 blocks, incl. 47,360 sq.yd. paving, to Dearborn Constr. Co., Waterloo, 8-in. vibrolithic concrete at $2.58 per sq.yd. and 6-in. $224 per sq.yd. Total $122,340. Noted Nov. 1.

Streets and Roads (Continued)

Kan., Pittsburg—Concrete paving to Du Bois Constr. Co., Pttsburg, $45,876.

Kan., Salina—Salina Co., sand clay surfacing 5.25 mi. Federal Aid Project 44, Sects. A and B, also fine grading and sand clay surfacing 7.015 mi. Federal Aid Project 45, Sects. C and D, to Marquette Gravel & Constr. Co., Marquette, $33,585 and $42,-708 respectively.

Kan., Topeka—Grading and 20,000 sq. yd. 6 in. slab concrete alley paving, to Ritchie & Ramsey, 1809 West 8th St., $51,-318; 40 ft. rein.-con. girder bridge on Wagner St., also street railway paving Kansas Ave., to F. Luttjohann, 2101 Kansas Ave., $10,662 and $8,977 respectively.

Kan., Wichita — Improving various streets, to Globe Constr. Co., 1069 North Water St., 31,685 sq.yd. concrete paving $1.49, 470 sq.yd. concrete $1.90, 9,185 cu.yd. excav. $0.70; to Lefever Bros., Wichita, 5,394 lin.ft. combined curbing and guttering $0.77; to F. C. Kensler, 1558 South Water St., 1,080 lin.ft. combined curbing and guttering $0.76, 1,660 lin.ft. $0.74; to G. W. Brauch, 244 South Erie St., 3,681 lin.ft. combined curbing and guttering $0.78; to H. T. Ritchie Paving Co., Wichita, 1,926 sq.yd. sheet asphalt $2.58, 3,053 sq.yd. asphalt $2.18, 1,114 sq.yd. asphalt $1.49, 1,360 lin.ft. combined curbing and guttering $0.78, 23,828 sq.yd. asphaltic concrete $2.36, 1,660 sq.yd. asphaltic concrete $2.34, 1,305 sq.yd. asphaltic concrete $2.46, 867 sq.yd. asphaltic concrete $2.50, 5,920 cu.yd. excav., $0.17, 2,641 lin.ft. combined curbing and guttering $0.794, 2,666 lin.ft. combined curbing and guttering $0.78, 1,124 lin.ft. combined curbing and guttering $0.79, 5,203 lin.ft. combined curbing and guttering $0.77. Noted Mar. 6.

Tex., Beaumont—Jefferson Co., grading, concrete surfacing, etc., 7.35 mi. State Highway 40, Bates Sect., Voth Rd., Federal Aid Project 349, 16 ft., to Smith Bros., Amer. Natl. Bank Bldg., Dallas, $204,756. Engrs. est. $250,000. Noted Mar. 13.

Tex., Corsicana—Paving 12 streets, 52,000 sq.yd. brick, to Panhandle Constr. Co., Lubbock, $237,251. Noted Feb. 14.

Tex., Dallas—Paving various streets in Kessler Park, 1½ in. rock asphalt on 5 in. concrete, to Uvalde Rock Asphalt Paving Co., Insurance Bldg., $100,000.

Tex., Galveston—Raising grade in Area from 40th to 48th Sts. south of Bway., to United Dredging Co., Tremont St., $1,120,-434. Noted Feb. 14.

Tex., Daingerfield—Morris Co., grading, gravel surfacing, etc., 5.08 mi. State Highway 35, Federal Aid Project 362, 12 ft., to Womack Constr. Co., Sherman, $31,816. Noted Mar. 13.

Tex., McKinney — Collin Co., rein.-con. surfacing 22,590 sq.yd. State Highway 1, Federal Aid Project 234, to Tibbetts Constr. Co., Mineral Wells, $60,088. Noted Mar. 13.

Tex., Rio Grande City—Starr Co. grading and gravel surfacing 13.19 mi. State Highway 12, Federal Aid Project 337-B, 12 ft., to W. T. Montgomery, Alamo Bank Bldg., San Antonio, $51,809; rein.-con. drainage structures on above, to Smith Starkey & Brown, Houston, $22,079. Noted Mar. 13.

Tex., Waxahachie—Ellis Co., grading and gravel surfacing 3.04 mi. State Highway 14, Federal Aid Project 384, 18 ft., to Eprosun & Co., Groesbeck, $14,772; draining above, to Austin Bridge Co., 1813 Clarence St., $18,584; 6,960 cu.yd. gravel to be furnished by county. Engrs. est. $52,-330. Noted Feb. 21.

Okla., Blackwell—Grading and paving 7 blocks North 7th and B Sts., 8,600 sq.yd. concrete, 3,600 lin.ft. curbing, 2,750 cu.yd. excav., to Tyler & Pethel, 928 West Blackwell St., $2.35 per sq.yd. for 6 in. concrete, etc., total $26,777. Noted Mar. 6.

Okla., Newkirk—Kay Co., grading and paving 2.52 mi. Tonkawa Rd., 26,300 sq.yd. vertical fibre brick, 19,300 cu.yd. excav., to Bert Brooks, Inc., Tonkawa, $76,110.

Okla., Norman—Grading and paving 9 blocks, Monett St., to Yates Constr. Co., Ada, 14,106 sq.yd. concrete $2.55, 5,250 lin. ft. curbing, 3,850 cu.yd. earth excav., total $48,772.

Washington—State Hy. Comn., Olympia, concrete paving 6 mi. Olympic Highway from Perry Creek west, Thurston Co., to F. McLellan, Lyon Bldg., Seattle, $181,940, 4.64 mi. Olympic Highway from Grays Harbor to Thurston County line, Thurston Co., to T. M. Morgan, Everett, $172,750; grading 7.37 mi. Inland Empire Highway from Waitsburg to Dayton, Columbia and Walla Walla Counties, to Campbell Constr. Co., Sunnyside, $41,234, 6.62 mi. Olympic Highway from Queets River southeast, Grays Harbor and Jefferson Counties, to J. Rignall, Rignall, $28,679. Noted Feb. 28.

Wash., Chehalis—Concrete paving Main St. et al., to Albers Constr. Co., Chehalis, 11,000 sq.yd. concrete $2.27 per sq.yd., 10,-000 cu.yd. earth excav. $0.80, total $51,039. Engrs. est. $54,000.

Wash., Seattle—Comrs. King Co., grading Hobart-Issaquah Rd., to M. Richardson, 3434 14th St. W., $25,500. Engrs. est. $25,000.

Oregon—State Hy. Dept., Salem, to J. C. Compton, McMinnville, improving 9.5 mi. Albany-Corvallis Highway, 18 ft., Benton Co., 2,000 cu.yd. new gravel base $1.75 per cu.yd., 100,800 sq.yd. concrete paving $2.04, etc., total $231,622.

Ore., Portland—To Warren Constr. Co., Park Rose St., improving East 58th St., 4,017 cu.yd. earth excav. $0.90 per cu.yd., 26,900 sq.ft. concrete sidewalk $0.18, 8,800 sq.yd. asphaltic concrete paving $1.15, etc., total $30,385, engrs. est. $34,887; to S. Simonson, Portland, improving Clinton St., 4,358 cu.yd. earth excav. $1, 8,662 sq.yd. asphaltic concrete (redressed) paving $1.30, etc., $44,732, engrs. est. $49,755; to City Paving Plant, City Hall, improving East 13th St., 4,400 cu.yd. earth excav. $1.25, 1,900 sq.ft. concrete sidewalk $0.21, 1,220 lin.ft. concrete curb $0.53, 44,860 sq.yd. asphaltic concrete paving $0.95, etc., $55,508.

California—Improving highway between south boundary Ventura Co. and Camarillo, Div. 7, Route 2, Sects. A and B, 13.5 mi. grading, 7.4 mi. concrete paving, 2.5 mi. widened with concrete shoulders, to S. Hunter, 122 Valero St., Santa Barbara, $319,145, engrs. est. $369,002. Noted Mar. 20.

Industrial Works

PROPOSED WORK

R. I., Providence—Factory—S. P. Harris Co., 97 Dyer St., had plans prepared by Perry & Whipple, Hospital Trust Bldg., 2 story, 70 x 150 ft., brick. Public St. $60,000.

N. Y., Hornell — Manufacturing — New York Central Electric Corp. plans 4 story, brick, concrete and steel, Bway. $150,000-$175,000.

N. Y., Oswego—Plant—Peoples Gas & Electric Co., 70 East 1st St., plans plant addition. $175,000-$200,000. R. F. Burnett, mgr.

N. Y., Tonawanda — Plant — Spaulding Fibre Co., Wheeler St., plans brick, concrete and steel addition. $130,000.

Fla., Clearwater—Gas Plant—City voted $150,000 bonds for gas plant and equipment. W. C. Galt, Clearwater, engr. Noted Feb. 21.

La., New Orleans—Factory—Henry Ford Motor Co., Highland Park (Detroit, P. O.), Mich. purchased 6 acres adjoining assembling plant, here, and plans new factory.

Tenn., Memphis — Mill — Cole Mfg. Co., 789 South 4th St., plans addition (first of 3 units). $40,000.

Tenn., Milan—Factory—Milan Development Co. soon takes bids cigar factory, $40,000. Amer. Cigar Co., lessee. Noted Mar. 6.

Ky., Ashland—Bakery—Ashland Bakery plans 4 story, 55 x 60 ft. bakery. $40,000.

Ill., Melrose Park—Electrical Engineers Equipment Co., 710 West Madison St., Chicago, plans 1 story, rein.-con. and brick on 17-acre site, here. $150,000. Woodmansee-Davidson Eng. Co., 208 South La Salle St., Chicago, engrs.

Wis., Milwaukee — Factory — Sperry Candy Co., 171 Bway., plans to rebuild 4 story, 50 x 60 ft., brick and timber, Reed St. $45,000. Engineer and architect not selected.

Ia., Marshalltown — Factory — Fisher Governor Co. plans 2 story and basement, 60 x 80 ft. addition. Private plans.

Kan., Kansas City — Boiler Works — Darby Boiler Wks. Co., 923 North Erd St., purchased 26 acre site and plans boiler works. Private plans.

Kan., Kansas City — Factory — Fairfax Iron & Steel Co. preparing plans 1 story, 160 x 700 ft., on 1780 acre site. Private plans. Horner & Wyatt, 306 McMillian Bldg., Kansas City, Mo., engrs.

Neb., Crete—Light and Power Plant—Defeated $45,000 bonds for electric light and power plant. C. E. Beals, city clk. Noted Feb. 28.

Mo., Carthage — Tannery — Owner, c/o Chamber of Commerce, plans rein.-con. and brick buildings. $150,000. Private plans.

Tex., Ft. Worth — Repair — Lone Star Tank Co., Wichita Falls, plans steel car repair shop, Saginaw Rd. along tracks Atchison, Topeka & Santa Fe R.R., here. $75,000. Engineer and architect not announced.

Tex., Marble Falls—Mill—Marble Falls Textile Mills making plans new textile mill. $500,000. Private plans.

Calif., Los Angeles—Flour Mill—Sperry Flour Co., 141 California St., San Francisco, having plans prepared by M. C. Crowhot, 234 Pine St., San Francisco, [illegible] of buildings for flour mill, Maywood Ave., here. $1,000,000.

Calif., Los Angeles—Power Plant—See "Unclassified."

Calif., Monrovia—Factory—Day & Night Solar Heater Co., 902 South Myrtle St., having plans prepared by Hamm & Grant, Ferguson Bldg., Los Angeles, 1 and 2 story, 150 x 200 ft., brick, Foothill Blvd.

Calif., Oakland—Factory—Illinois Wire & Cable Co., Sycamore, Ill., having plans prepared by W. J. Miller, 417 Market St., San Francisco, six concrete and brick factory buildings, 80th Ave., here, first unit $40,000, total $250,000.

Calif., Ontario — Power Plant — Ontario Power Co. plans 3,000 to 4,000 watt steam generating plant. G. D. Smith, genl. mgr.

Calif., Pasadena—Factory—Wickercraft Furniture Co., 403 South Raymond Ave., having plans prepared by Hamm & Grant, Ferguson Bldg., Los Angeles, 4 story, 100 x 125 ft., rein.-con. and heavy mill construction.

BIDS DESIRED

N. Y., Buffalo—Plant, etc.—Apr. 17, at office Dept. Pub. Wks., Municipal Bldg., furnishing and asphalt repair plant, 2,000 sq. yd. capacity of completed asphalt pavement, yard and road equipment for laying sheet asphalt; adv. E. N.-R. Mar. 27.

Wis., Racine—Factory—Apr. 1, by E. R. Funston Co., archts., Janes Blk., 1 story, 100 x 248 ft., brick and timber, plain foundation, De Koven Ave., for Wisconsin Metal Products Co., c/o architects. $60,000.

B. C., Essondale—Power Plant—Apr. 7, by Dept. Pub. Wks., Victoria, 50 x 50 x 140 ft. steam heat and power plant at asylum here. $200,000. J. H. Whittaker, New Westminster, archt.

B. C., Point Grey—Power Plant—Apr. 7, by Dept. Pub. Wks., Victoria, 45 x 56 x 120 ft. steam heat and power plant at University site, for University of British Columbia, 10th and Willow Sts., Vancouver. $200,000. Sharp & Thompson, 708 London Bldg., Vancouver, archts.

CONTRACTS AWARDED

R. I., Woonsocket—Factory, etc.—Dunn Worsted Co., Mill St., 2 story, 75 x 80 ft., factory and office, brick, plain foundation, Mill St., to Eastern Constr. Co., 345 North Main St. Archts. est. $40,000.

N. Y., Amsterdam—Factory—S. Sanford & Sons, Inc., 5 story, rein.-con., Shuler St., to J. J. Turner & Sons, Amsterdam. To exceed $150,000.

N. Y., New York—Plant, etc.—David Wells Son Lithographing Co., 386 Berry St., 8 story, rein.-con., brick and steel plant and office building, plain foundation, Berry St., to Commonwealth Eng. Corp., 103 Park Ave. Archts. est. $750,000.

N. Y., Rochester—Plant—Rochester Gas & Electric Co., 34 Clinton Ave. N., 3 story, 90 x 220 ft. power plant, to Ferro Concrete Constr. Co., 3rd and Elm Sts., Cincinnati. Archts. est. $200,000.

N. Y., Sherrill—Manufacturing—Oneida Community, Ltd., 1 story manufacturing building, two 2 story, 100 x 280 ft. wings, to Austin Constr. Co., 16112 Euclid Ave., Cleveland, $125,000.

Pa., Phila. — Plant — Allegheny Realty Co., 3264 North 6th St., 7 story and basement, 132 x 180 ft. and 1 story, 40 x 85 ft. brick and steel, Allegheny Ave. and B St., to Barclay & White Co., Presser Bldg.

Pa., Phila.—Mill—Rodger Hosiery Co., Stenton and Wyoming Sts., 2 story and basement, 55 x 72 x 149 ft. brick and steel, plain foundation, to R. H. Patterson & Son, 6 Queen Lane, $50,000.

W. Va., Keyser—Mill—Keyser Worsted Mills, addition to Snider Bros., Keyser, $40,000. Noted June 14.

Tenn., Chattanooga — Plant — Turnbull Cone & Mchy. Co., 2 story addition, to T. S. Mundy & Co., Chattanooga. $40,000. Noted Jan. 17.

Ky., Paducah—Bakery—City Baking Co., 122 North 2nd St., 3 story, 40 x 140 ft., to G. Lockwood, Paducah. Est. cost $40,000.

O., Cincinnati—Print Shop, etc.—Times Star Publishing Co., 6th and Walnut Sts., rein.-con. print shop and office building, Walnut St., to J. and F. Harig, 1240 Queens City Ave., $150,000.

O., Cleveland—Factory—Reese Chemical Co., 1945 East 57th St., 1 story, 37 x 140 ft., brick and steel, Frank Ave., to Lehder Constr. Co., Rose Bldg. Archts. est. $40,000.

O., Cleveland—Factory—T. Gurscher Co., 2129 West 19th St., remodeling and building 2 story, 58 x 100 ft. brick addition, West 63rd St., to Forschner Co., East 10th St. and St. Clair Ave. Archts. est. $40,000. Noted Feb. 21.

Industrial Works (Continued)

O., Cleveland—Factory—Motor Repair & Mfg. Co., c/o C. Levinson, pres., 1549 Hamilton Ave., 1 and 2 story, 60 x 100 and 20 x 60 ft., brick and steel additions, to De Hamel Constr. Co., Plymouth Bldg. Archts. est. $40,000. Noted Mar. 6.

O., Cleveland — Factory — Sanitary Tinning Co., c/o A. J. and O. C. Miller, 3753 East 93rd St., 1 story and basement, 54 x 104 ft., brick and steel, 3753 East 93rd St., masonry contract to Figilis & Tepper, 3283 East 123rd St. Archts. est. $40,000.

O., Elyria—Factory—Elyria Iron & Steel Co., 1 story, brick and steel, to A. C. Felver, 7016 Euclid Ave., Cleveland. Archts. est. $50,000. Noted Feb. 28.

O., Portsmouth—Plant—Peebles Paving Brick Co., 1 story, brick and steel, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $100,000.

Mich., Iron Mountain—Shipping Plant—Ford Motor Co., Highland Park (Detroit, P. O.), 1 story, 42 x 162 ft. brick and steel, plain foundation, to W. W. Oeflein, 86 Michigan Ave., Milwaukee.

Mich., River Rouge—Factory—Ford Motor Co., Highland Park, (Detroit P. O.), 1 story, 270 x 1,260 ft., rein.-con., brick and steel, plain foundation, here, to Bryant & Detwiler Co., 2336 Dime Bank Bldg., Detroit. Noted Feb. 21.

Ill., Belvidere—Factory—Sanitary Scale Co., 565 West Washington St., Chicago, 1 story and basement, brick and concrete, to E. B. Glass, Belvidere. Archts. est. $40,000.

Ill., Chicago—Factory—Florsheim Shoe Co., 450 West Adams St., 6 story, 61 x 225 ft. fireproof, 3981 Belmont St., to R. F. Wilson Co., 1851 Elston St. Archts. est. $750,000. Noted Nov. 15.

Ill., Chicago — Plant — Gulbransen, Dickenson Co., 3232 West Chicago Ave., 6 story, 100 x 145 ft. addition, fireproof, 3232 West Chicago Ave., to J. W. Snyder Co., 116 South Michigan St. Archts. est. $200,000.

Kan., Tecumseh—Plant—Illinois Light & Power Co., Peoria, Ill., will build concrete and steel plant, here, by day labor. $2,225,000. Noted Oct. 18.

Mo., St. Joseph—Plant—See "Buildings."

Mo., St. Joseph—Factory—Collier Adams Mfg. Co., 4th and Mitchell Aves., will alter and construct 3 story and basement, 94 x 139 ft., rein.-con. and brick factory addition, also lumber-sheds, 63 x 72 ft. dry kilns, 35 x 36 ft. boiler room, by day labor. $75,000. E. I. Meier, 203 Lincoln Bldg., archt. Noted Apr. 5.

Mo., St. Louis—Factory—Moore Shoe Co., 1906 Pine St., 2 story and basement, 60 x 190 ft., brick and frame, Boyle St., to L. B. Shaffner, 2704 North Kingshighway. Archts. est. $50,000.

Okla., Enid — Garage, Warehouse and Lumber Yard — Kiowa Lumber Co., 136 x 140 ft., general contract to D. C. Bass & Son, Enid. Archts. est. $40,000. Noted Mar. 6.

B. C., Vancouver—Workhouse—See "Unclassified."

Buildings

PROPOSED WORK

Conn., Hartford—Apartment—Padula & Bell, 48 Bellanger St., West Hartford, having plans prepared by J. E. Marchetti, 721 Main St., 3 story, 91 x 125 ft., brick and steel, plain foundation, Willard St., here. $175,000.

N. Y., Binghamton—High School—Bd. Educ. had plans prepared by T. I. Lacey & Son, Press Bldg., East Junior High School, 3 story, 175 x 212 ft., brick, stone, concrete and steel, Broad Ave., Robinson and Ely Sts. $425,000-$450,000. Noted Feb. 7.

N. Y., Brooklyn—Arsenal—Adjutant General, 158 State St., Albany, soon takes bids 6 story and basement 80 x 480 ft., rein.-con., on block bounded by 2nd and 3rd Aves., 63rd and 64th Sts., here. $1,350,000.

N. Y., Buffalo—Church—St. Vincent de Pauls Parish, 15 Eastwood Pl., had plans prepared brick and stone, Main St. and Eastwood Pl. $475,000-$500,000 J. S. Hummell, pastor. Noted Aug. 23.

N. Y., Hamilton—Hotel—Building Com. Hamilton Business Mens Assn., and Amer. Hotels Corp., plan new hotel. Address T. B. Bell, pres. Business Mens Assn.

N. Y., Jamaica—Apartment—Highland & Ackroyd Realty Corp., c/o Webb & Sohn, archts. and engrs., 469 5th Ave., New York, having plans prepared brick, steel and stone, plain foundation, Hillside Ave., here. $250,000.

N. Y., Johnstown — Club — Johnstown Lodge Loyal Order of Moose 1185, plans fireproof building. $175,000-$180,000.

N. Y., Johnstown—Lodge—Building Com. St. Patricks Lodge 4, F and A. M., plans brick, stone, steel and concrete, North Perry St. $150,000-$160,000. A. L. Adams, chn.

N. Y., Johnstown—Hotel—Building Com. Johnstown Business Mens Assn., plans new hotel. $200,000-$225,000. Address L. K. Maylender, Jr., chn. Engineer and architect not selected.

N. Y., New York—Garage—Shampan & Shampan, archts. and engrs., 189 Montague St., Brooklyn, preparing plans 1 story, 98 x 100 ft., rein.-con., brick and steel, plain foundation, West 41st St. near 9th Ave., here. $300,000. Owners name withheld.

N. Y., New York—Office—H. Hellman, Co., Inc., 159 West 25th St., having plans prepared by W. H. Birkmires Sons, archts. and engrs., 1133 Bway., 12 story, brick, steel and stone, plain foundation, 71 West 45th St. $500,000.

N. Y., Ogdensburg—Bank—Bd. Directors Ogdensburg Bank, soon takes bids 42 x 100 ft., brick, 32 ft. high, Ford St. $200,000. Thomas Bruce Boyd, Inc., 286 5th Ave., New York City, archts. and engrs. Noted Feb. 28.

N. Y., Penn Yan—Dormitory and Gymnasium—Keuka College for Women, having plans prepared by O. Dockstader, Elmira, rein.-con., brick and steel. $150,000-$175,000. A. H. Norton, pres.

N. Y., Schenectady—School—Bd. Educ. plans 2 story, brick and steel, plain founda-

APPROACH PIERS—PHILADELPHIA, PENN.

Following are lowest three bids opened by Delaware River Bridge Joint Comn., Widener Bldg., Feb. 13, for Contr. No. 11, Philadelphia approach piers for bridge over Delaware River between Philadelphia and Camden, N. J., (A) Frederick Snare Corp., 114 Liberty St., New York, (awarded contract); (B) Keystone State Constr. Co., 210 South 13th St.; (C) P. T. Cox Contg. Co., 164 Nassau St., New York; Contr. No. 12, Camden approach piers, (A) H. G. Ley & Co., 716 Raymond St., (awarded contract); (B) Frederick Snare Corp.; (C) Keystone State Constr. Co. The unit bids were as follows:

Contract 11	A	B	C
650 lin.ft. test borings	$2.00	$2.50	$1.80
10,500 cu.yd. excavation to 12 ft. below future finished grade	2.00	3.50	4.75
1,000 cu.yd. excavation, 12 to 20 ft. below future finished grade	4.00	6.00	4.75
8,000 cu.yd. concrete masonry	12.50	14.00	13.75
3,000 lin.ft. reinforced concrete piles	1.50	2.20	2.00
3,000 lin.ft. driving reinforced concrete piles	.50	1.20	2.00
400 cu.yd. granite masonry coping	125.00	115.00	110.00
470 cu.yd. granite masonry, rock face ashlar	86.00	82.00	79.00
45,600 lb. reinforcing steel	.05	.06	.045
Underground structures and paving Florist Street (lump sum)	6,000.00	5,000.00	4,400.00
Extended totals	$231,000	$258,851	$265,377

Contract 12	A	B	C
650 lin.ft. test borings	$1.85	$2.00	$2.50
11,000 cu.yd. excavation to 12 ft. below future finished grade	3.10	3.50	3.50
2,000 cu.yd. excavation 12 to 20 ft. below future finished grade	4.94	5.00	6.00
9,400 cu.yd. concrete masonry	10.50	12.50	14.00
6,000 lin.ft. reinforced concrete piles	1.80	1.50	2.20
6,000 lin.ft. driving reinforced concrete piles	1.65	.50	1.20
510 cu.yd. granite masonry coping	113.00	118.80	115.00
620 cu.yd. granite masonry rock face ashlar	75.00	86.70	82.00
70,000 lb. reinforcing steel	.045	.05	.06
Extended totals	$271,863	$297,142	$317,815

BRIDGE—PHILADELPHIA, PENN.

Bids were opened Mar. 19, by Delaware River Bridge Joint Comn., Widener Bldg., for (1) cable bands, suspenders and hand ropes for bridge over Delaware River connecting Philadelphia and Camden, N. J., Contr. No. 13, (A) Keystone State Constr. Co., 210 South 13th St., (awarded contract); (B) Underpinning & Foundation Co., 342 Madison Ave., New York; (2) suspended structure for bridge, Contr. No. 14, (A) American Bridge Co., Widener Bldg., (awarded contract); (B) McClintic-Marshall Co., Pittsburgh; (C) Bethlehem Steel Co., Bethlehem. The unit bids were as follows:

	A	B	C
49,000 ft. furnishing suspender rope	$1.50	$1.40	.....
105,000 ft. erecting suspender rope	.85	.60	.....
840,000 lb. steel castings	.24	.27	.....
94,000 lb. high tensile bolts	.25	.40	.....
Hand ropes, as per plans (lump sum)	7,000.00	7,000.00	.....
40,000 lb. wrought and structural steel	.15	.15	.....
Painting main cables, as per plans (lump sum)	4,000.00	5,000.00	.....
Extended totals	$404,850	$414,000	.....

	A	B	C
11,300,000 lb. structural special steel	$0.0875	$0.093	$0.1047
9,100,000 lb. structural silicon steel	.0785	.077	.0899
16,700,000 lb. structural carbon steel	.0690	.068	.0810
60,000 lb. forged carbon steel	.12	.139	.156
50,000 lb. cast steel	.14	.133	.1651
20,000 lb. bronze	.56	.513	.5625
40,000 lb. cast iron	.18	.154	.2869
Extended totals	$2,888,000	$2,918,610	$3,393,917

FILTRATION PLANT—FAIRMONT, W. VA.

Following are lowest three bids opened by city, Feb. 11, for constructing filtration plant, (A) Rust Eng. Co., 311 Ross St., Pittsburgh, Penn., (awarded contract; Roberts Mfg. Co., Darby, Penn., subcontractors for filter equipment); (B) J. M. Didinger, Phila.; (C) Concrete Steel Bridge Co., Clarksburg. The unit bids were as follows:

	A	B	C
3,200 cu.yd. earthwork	$1.11	$1.50	$1.75
200 cu.yd. rock excavation	4.92	3.50	4.90
120 cu.yd. concrete substructure	26.60	19.00	20.30
1,280 cu.yd. concrete superstructure	27.88	30.00	31.00
10,000 sq.ft. machine surfacing concrete	.12	.1375	.10
6,800 sq.ft. granulated surfacing concrete	.04	.10	.125
205,000 lb. steel reinforcing	.0525	.065	.05
200 lin.ft. 24 in. vitrified pipe line	3.71	4.00	3.70
125 lin.ft. 12 in. vitrified pipe line	1.46	1.35	1.40
40 lin.ft. 4 in. vitrified pipe line	.60	.50	1.00
35 tons extra cast iron pipe	110.00	85.50	85.00
8 tons extra specials	200.00	180.00	165.00
Filter piping and equipment (lump sum)	38,063.00	38,800.00	38,633.00
Filter gravel and sand (lump sum)	3,360.00	3,267.00	3,600.00
Wash water pumps (lump sum)	2,363.00	3,470.00	2,510.00
Pressure pumps (lump sum)	2,625.00	2,025.00	2,430.00
Superstructure (lump sum)	24,000.00	24,000.00	25,000.00
600 lin.ft. clear water basin fence	2.00	1,650.00	4.25
Raw water pump and appurtenances (lump sum)	3,800.00	2,200.00	2,925.00
Extended totals	$137,458	$142,393	$143,694

Buildings (Continued)

tion, Bellevue St. $175,000. Engineer and architect not selected.

N. J., West New York (Branch of Weehawken)—Apartment—Montrose Morris & Son, archts. and engrs., 517 Nostrand Ave., Brooklyn, N. Y., preparing plans 8 story, brick, steel and stone, plain foundation, here, $1,000,000. Owners name withheld.

Pa., Berlin — Church — Berlin Brethern Church plans 2 story and basement, 100 x 132 ft., Main St. $150,000. Architect not seelcted.

Pa., Girardville — Church and Sunday School — St. Vincents Roman Catholic Church having plans prepared by G. C. Freeman, Liberty Bank Bldg., Reading, 2 and 3 story and basement, 50 x 150 ft. brick and steel, plain foundation. $150,000.

Pa., Phila.—Exchange—Bell Telephone Co., 19th St. and Parkway, having plans prepared by J. T. Windrim, Commonwealth Bldg., 120 x 173 ft., 16th and Jefferson Sts.

Pa., Phila.—Hospital—P. H. Johnson, archt., 1713 Sansom St., preparing revised plans for group of buildings for Penna. Mystic Shrine, 1337 Spring Garden St. Noted Jan. 31.

Pa., Phila.—Office—Independence Realty Co., c/o Ritter & Shay, archts., North Amer. Bldg., had plans prepared 8 story and basement, 85 x 125 ft. brick, stone and steel, 5th and Walnut Sts. $1,000,000.

Pa., Reading—School—School Dist. had plans prepared by F. H. Muhlenberg, archt., Ganster Bldg., 2 story and basement, 100 x 150 ft., brick and steel, plain foundation. $200,000.

Pa., Williamsport — Garage — Mead & Goodrich (Ford Agency), 350 West 3rd St., plans 3 story and basement, 110 x 200 ft. concrete, brick and steel garage, storage room, repair shop, etc., West 3rd St. $150,000.

Md., Baltimore — Church and Sunday School—St. Marks Methodist Episcopal Church, Garrison and Liberty Heights Ave., plans 1 story and basement, addition to church and Sunday School, stone, plain foundation. $150,000. J. P. Hand, pastor. Architect and engineer not selected.

Md., Baltimore — Church, etc. — Second Presbyterian Church, 2522 North Charles St., having plans prepared by E. L. Palmer, 513 North Charles St., 1 story and basement, church, community house and Sunday School, stone, St. Paul and Charlotte Rds. $200,000. R. G. Leetch, pastor.

Md., Catonsville (Baltimore, P. O.)—Ward—Spring Grove State Hospital, c/o A. P. Herring, 330 North Charles St., Baltimore, having plans prepared by H. P. Hopkins, 347 North Charles St., Baltimore, 3 story and basement, 40 x 100 ft., stone, here. $275,000.

Md., Towson — Schools — School Bd. of Baltimore Co., Courthouse, plans 3 story and basement, at Towson, $250,000; 3 story at Catonsville (Baltimore, P. O.), $250,000; both brick, plain foundations. Smith & May, Calvert Bldg., Baltimore, archts.

D. C., Wash. — School — Dist. Comrs. plans addition to Tenley School. $160,000.

Va., Lynchburg—School—Bd. Educ. having preliminary plans prepared by Heard & Chesterman, Lynchburg, 3 story, 160 x 202 ft., 13th and Floyd Sts. $225,000.

W. Va., Mannington—Schools—Defeated $200,000 bonds for schools. Noted Feb. 21.

W. Va., Wheeling—Bank and Office—Quarter Savings & Trust Co., 1601 Market St., having plans prepared by C. W. Bates, Wheeling, 10 story, 67 x 132 ft., brick and steel, 14th and Market Sts.

W. Va., Wheeling—Cold Storage—Klablitzer Packing Co., 4128 Water St., plans 6 story, 100 x 100 ft., rein.-con. addition. $175,000.

N. C., Fayetteville—Court House—Cumberland Co. having revised plans prepared by H. Barton, Greensboro, and soon takes bids court house. $475,000. Former bids rejected. $475,000. Noted Nov. 1.

N. C., Shelby—Apartment—B. F. Curtis and associates plan 6 story and basement, Dixon Pl. $200,000. Engineer and architect not announced.

Fla., St. Petersburg — Coliseum — St. Petersburg Coliseum Corp. plans coliseum, 4th Ave. North between 5th and 6th Sts. $300,000. C. F. Cullen, pres.

Fla., St. Petersburg—Theatre and Office—Floximas Co. having plans prepared by Taylor & Wakeling, St. Petersburg, 6 story, rein.-con. and steel, 1st Ave. $250,000. H. S. Chase, treas.

Fla., Tampa—Hospital and Auditorium—Election Apr. 22, $215,000 bonds for addition to hospital; also $250,000 bonds for auditorium. W. E. Duncan, city clk. Noted Jan. 3.

Ala., Florence—Bank and Office—Alabama Trust & Savings Bank having plans prepared by Alsop & Callahan, Memphis, Tenn., 3 story (ultimately 6 story) 22 x 110 ft. rein.-con., fireproof. $150,000.

La., New Orleans — Apartment — W. A. Bisso, United Fruit Bldg., plans 8 or 10 story, St. Charles and Napoleon Aves. $250,000. Architect not selected.

Tenn., Nashville—College—Scarritt College for Christian Workers plans college on 19th Ave. $500,000.

Ky., Louisville—Club—Louisville Aerie, Fraternal Order of Eagles, 812 South 2nd St., plans 2 story, mezzanine and basement, 60 x 125 ft. addition. $150,000.

Ky., Louisville—Theatre, Club and Office—J. G. Brown, Brown Hotel, plans 7 story, 65 x 125 ft., Bway. near 4th St. $1,000,000. Noted Feb. 21.

Ky., Newport—Church and Auditorium—First Baptist Church having plans prepared by O. D. Mock, M. E. Taylor Bldg., Louisville, 3 story, 100 x 120 ft., steel and stone. $175,000.

O., Cincinnati—Apartment—C. P. Taft, Times Star Bldg., plans 4 and 8 story, 100 x 300 ft., 4th St. $500,000. Garber & Woodward, 2803 Union Central Bldg., archts.

O., Cincinnati — Hospital — Bethesda Hospital, Lafayette and Middletown Aves., having plans prepared by S. Hannaford & Sons, 1024 Dixie Terminal, 7 story addition, Oak St. $600,000. Noted Sept. 6.

O., Cincinnati — Hospital — Christ Hospital, Auburn Ave., plans hospital. $200,000. Engineer and architect not selected.

O., Cleveland — Apartment — C. Kupersmith, 9232 Adams Ave., and M. Skolnik, 11720 Imperial Ave., having plans prepared by L. Skolnik, 6th-St. Clair Bldg., 2 story and basement, 76 x 142 ft., brick, Woodworth Rd. $150,000.

O., Cleveland—Commercial—Bell Mortgage & Investment Co., c/o L. A. Harris, 505 Prospect Ave., plans 3 story, brick, on 66 x 210 ft. lot, 3040 Prospect Ave. $150,000. Engineer and architect not selected.

O., Cleveland—Commercial—G. Koller, 724 Prospect Ave., had revised plans prepared by J. L. Cameron, 10406 Euclid Ave., 4 story, 50 x 81 ft., brick and steel addition, 633 Huron Rd. $150,000.

O., Cleveland—Commercial—I. Margolin, 2496 Derbyshire Rd., having plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 80 x 80 ft., brick and steel, 3629 Euclid Ave. $175,000.

O., Cleveland Heights (Warrensville P. O.)—Church and Sunday School—Cleveland Heights Methodist Episcopal Church, 14280 Superior Rd., Cleveland, having sketches made by Corbusier & Lenske, B. F. Keith Bldg., Cleveland, 1 story, brick, stone and steel, plain foundation, Lee Rd. and Euclid Blvd., here. $250,000.

O., Novelty — Infirmary — St. Andrews Scottish Benevolent Society, c/o R. M. Bowie, pres., 355 The Arcade, Cleveland, plans 2 story, brick, here. $200,000. Engineer and architect not selected.

O., Portsmouth—Bank—First Natl. Bank having plans prepared by Carmichael-Millspaugh, 67 East Long St., Columbus, 8 story and basement, 30 x 175 ft., brick, steel and concrete addition. $200,000.

O., Uhrichsville—Lodge—Pythian Castle Co. plans 3 story, Main and 3rd Sts. $160,000.

Mich., Detroit — Clubhouse — Standard Club, Dearborn St., Chicago, having plans prepared by A. Kahn, 1000 Marquette Bldg., 10 story and basement, 70 x 195 ft., rein.-con., brick and steel, Dearborn St., here.

Mich., Detroit—Mercantile—R. H. Marr, archt., 2631 Woodward Ave., preparing plans 7 story and basement, 80 x 100 ft. brick and steel, plain foundation, Hancock St. $200,000. Owner's name withheld.

Mich., Detroit—Theatre and Hotel—P. Gleichman, Bway. Strand Theatre, Bway. Ave., plans theatre and hotel, about 8 story, 3,600 seating capacity of theatre, and 650 rooms in hotel, rein.-con., brick and steel, plain foundation, $4,000,000.

Mich., Highland Park (Detroit, P. O.)—Library—Voted $500,000 bonds for 2 story and basement, rein.-con., brick, steel and stone, plain foundation. E. L. Tilton, 141 East 45th St., New York City, archt. Noted Jan. 3.

Miss., Meridian—Plant—R. A. Davis, J. H. Dunston and associates formerly of Southern Creosoting Plant, Slidell, La., having tentative plans prepared plant, here. $500,000.

Ill., Chicago—Hall, Store and Office—Weis, Spitz & Lindheimer, 77 West Washington St., plan 3 story, 100 x 150 ft. fireproof, Madison and Kedzie Sts. $250,000. A. S. Alschuler, 28 East Jackson St., archt.

Ill., Chicago—Office and Storage—Lindemann & Hoverson Co., 1st and Cleveland Aves., Milwaukee, Wis., having plans prepared by P. Gerhardt, 64 West Randolph St., 6 story and basement, 100 x 192 ft., brick and concrete, plain foundation, Washington Blvd., here. $450,000.

Ill., Chicago—Sales and Warehouse—L. R. Warshawsky, c/o A. S. Alschuler, archt., 28 East Jackson St., plans 6 story, 60 x 116 ft., fireproof, 1919-23 South State St. $200,000.

Ill., Chicago — School — St. Constance Congregation, c/o A. Knitter, 5803 Strong St., having preliminary plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, Wis., 3 story and basement, brick and concrete, plain foundation. $150,000.

Wis., Burlington—High School—School Bd. rejected bids 2 story and basement, 180 x 240 ft., brick and tile, plain foundation. $200,000. Will revise and readvertise. Oppenhamer & Obel, Nicollet Bldg., Green Bay, archts. Noted Mar. 6.

Wis., Lancaster — High School — School Bd., F. J. Glanville, clk., having revised plans prepared by Parkinson & Dockendorff, Linker Bldg., La Crosse, and soon takes bids 2 story and basement, 90 x 132 ft., brick, tile and concrete, plain foundation. $150,000. Noted Feb. 7.

Wis., Milwaukee—Apartment and Store—M. Tullgren & Sons, archts., 425 East Water St., rejected bids 7 story, 82 x 165 ft., brick and concrete, plain foundation, West Side. $300,000. Owner's name withheld. Will readvertise. Noted Feb. 28.

Wis., Milwaukee — School — Milwaukee University School, 560 Bway., having preliminary plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., 2 story and basement (1st unit) brick, tile and concrete, plain foundation, Hartford St. $200,000.

Wis., Racine—Plant—G. Pfleger, Route 1, had plans prepared by W. J. Redden, 2819 Arlington Ave., 2 story, 40 x 50 ft., tile and concrete, plain foundation. $40,000.

Wis., Shorewood (Milwaukee P. O.)—High School—School Dist. 4, W. Sieker, clk., had plans prepared by Herbst & Kuenzli, 114 Grand Ave., 2 story and basement, (1st unit) brick, tile and concrete, plain foundation, Atwater Rd. $285,000 bonds voted. Noted Jan. 31.

Wis., Whitefish Bay — School — School Dist. 1, W. Klatte, clk., having plans prepared by M. Tullgren & Sons, 425 East Water St., 3 story and basement, brick and tile addition, plain foundation. $150,000.

Ia., Des Moines — School — Bd. Educ. voted $150,000 bonds for rebuilding Willard School. G. L. Garton, 629 3rd St., secy.

Ia., Des Moines—Store—L. Oransky & Sons having plans prepared by Sawyer & Wetrous, 401 Hippee Bldg., 6 story and basement, 66 x 132 ft., rein.-con., brick and stone, plain foundation, 5th and Walnut Sts. $500,000.

Ia., Ottumwa — Hospital — St. Josephs Hospital having preliminary plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, Wis., 4 story and basement, brick and concrete, plain foundation. $300,000. Noted Feb. 7.

Kan., Junction City — School — Election soon $500,000 bonds for school. T. Williamson & Co., 312 Central Natl. Bank, Topeka, archts.

Kan., Manhattan—High School and Gymnasium—Bd. Educ. having plans prepared by T. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, 2 story and basement, 80 x 158 ft., rein.-con. and stone, gymnasium 50 x 70 ft., auditorium 60 x 80 ft. $150,000.

Kan., Parsons — High School — Voted $400,000 bonds, 3 story, rein.-con., brick and stone senior high school, Main St. T. W. Williamson & Co., 312 Central Bank Bldg., Topeka, archt. Noted Mar. 20.

Neb., Kimball—Courthouse—Kimball Co. election soon to vote on $150,000 bonds for courthouse.

Neb., Omaha—Passenger Station—Chicago, Burlington & Quincy R.R., 10th and Farnum Sts., plans to alter station 10th and Mason Sts., $150,000.

Neb., Omaha—Schools—Bd. Educ., c/o W. T. Bourke, having surveys made new grade and junior high schools. $2,250,000.

Neb., Omaha — Seminary — Theological Seminary, c/o A. S. Denise, pres. 3303 North 21st St., plans addition. $250,000. Engineer and architect not selected.

Buildings (Continued)

Neb., Omaha—Store—G. Brandeis, 16th and Farnum Sts., having plans prepared by E. C. Wheeler, Chicago, Ill., 10 story and basement, 66 x 132 ft., brick and stone, 16th and Douglas Sts. $250,000.

Mo., Columbia—City Hall—Election probably in April $250,000 bonds 3 story and basement, rein.-con., brick and stone.

Mo., Columbia—Church and Sunday School—First Methodist Church, plans 140 x 200 ft., brick, stone and rein.-con., 120 ft. tower. $300,000. Private plans.

Mo., Kansas City—Apartment Hotel—B. C. Moss, interested company now being formed, c/o E. O. Brostrom, archt., 623 Reliance Bldg., having plans prepared 11 story and basement, 135 x 150 ft., rein.-con., brick and steel. $500,000.

Mo., St. Louis—Club and Library—St. Louis Medical Society, 3531 Pine St., soon takes bids rein.-con., brick and stone. $275,000. A. B. Grove, 320 North 4th St., archt.

Mo. St. Louis—Hall—Washington University c/o Womens Building Com., Skinker and Forsythe Blvds., having preliminary plans prepared 3 story and basement, rein.-con., brick and stone, on campus. $250,000. Engineer and architect not selected.

Ark., North Little Rock (Branch of Little Rock)—Schools—Bd. Educ. c/o J. Matthews, Southern Trust Bldg., Little Rock, takes bids about Apr. 1, addition to high school and 4 grade schools, brick and concrete, etc. $200,000. H. R. Burke, Southern Trust Bldg., archt.

Ark., Texarkana—City Hall—Plans election $250,000 bonds, city hall, 3rd and Walnut Sts.

Tex., Beaumont—Hospital—W. B. Dunlap, c/o Livesay & Wiedeman, archts., 607 San Jacinto Life Bldg., takes bids in September, 3 story and basement. $360,000.

Tex., Dallas—Warehouse—Farm-Labor Union, c/o R. D. Smith, Greenville, having plans prepared by Joor Eng. Co., engrs., Sumpter Bldg., cotton warehouse, concrete, 100,000 bales capacity, here. $250,000.

Tex., Ft. Worth—Store—Monnig Dry Goods Co., Main St., making plans 3 story and basement, 125 x 150 ft., concrete and brick, 5th and Houston Sts. $250,000. Architect and engineer not announced.

Tex., Port Arthur—Office and Store—J. R Adams, c/o H. C. Maurer, archt., 950 Spruce St., Beaumont, takes bids about May 15, 6 story and basement, 140 x 144 ft., concrete and brick, 5th and Austin Sts., here. $500,000.

Tex., Kerrville—Hospital and School—Tylers Four States Hospital, Inc., 1025 East Crockett St., San Antonio, plans rein.-con., brick and stone, plain foundation, here. $350,000. Engineer and architect to be selected soon.

Tex., San Antonio—Hotel—S. L. Jeffers, 1 Bushnell Pl., having plans prepared by H. T. Phelps, Hicks Bldg., 11 story, 80 x 140 ft., rein.-con., brick and stone, plain foundation, Ave. E and 3rd St. $500,000. Noted Nov. 8.

Okla., Bristow—School—Bd. Educ. soon takes bids 2 story and basement, rein.-con. and brick. Former bids rejected. $150,000. L. Curran, 204 Groom Bldg., archt. Noted Jan. 24.

Okla., Perry—Temple—Masonic Lodge plans 3 story, 75 x 140 ft. temple, Main St. $150,000. Engineer and architect not selected.

Wash., Seattle—Auditorium—City defeated $750,000 bond issue for auditorium. Noted Dec. 6.

Ore., Bend—High School—Sold $209,000 bonds high school. Will select engineer and architect at once.

Ore., Eugene—Hotel—A. H. McDonald takes bids about Apr. 27, 4 story, 100 x 100 ft., 10th and Willamette Sts. $150,000-$175,000. O. W. Hossack, Worcester Bldg., Portland, archt.

Calif., Eureka—High School—Eureka Junior High School Dist. having plans prepared by J. J. Donovan, Tappscott Bldg., Oakland, fireproof junior high school. Voted $450,000 bonds. Noted Aug. 2.

Calif., Los Angeles—Store and Hotel—Walker & Eisen, archts., Pacific Finance Bldg., prepared plans 4 story and basement, brick, Hollywood Blvd. and Western Ave. $150,000. Owner's name withheld.

Calif., Pasadena—Lodge—Scottish Rite Cathedral Assn., c/o J. Blick, archt., Dodworth Bldg., having plans prepared, fireproof on 175 x 200 ft. site, North Madison Ave. $150,000 or more.

Calif., Riverside—Theatre and Store—M. E. Durfee, archt., S. Kraemer Bldg., Anaheim, prepared plans 2 and 3 story, 75 x 155 ft., fireproof, 5th and Main Sts., here. Owners name withheld.

Calif., San Bernardino—Courthouse—San Bernardino Co. plans to vote on $700,000 bonds for courthouse.

Calif., Woodland—High School—Woodland Union High School Dist. plans to vote on $250,000 bonds for fireproof high school, to replace one recently destroyed by fire. Noted Jan. 24.

Que., Asbestos—Church—Roman Catholic Parish plans church here. $250,000. L. Naudet, 3 Wellington St., Sherbrooke, archt.

Que., Beauharnois—School—Town plans 4 story school. $150,000.

Que., Lasalle—School—Catholic School Comrs. of Montreal, plan 4 story, brick school, here. C. Beauchamp, Montreal, archt.

Que., Montreal—Clubhouse—E. E. Wallace, 65 McGill College Ave., having plans prepared by G. Mitchell, 14 Phillips Pl., 4 story, rein.-con. and brick, McGill College Ave. $150,000.

Que., St. Lambert—Schools—School Comrs. plan two 2 story, schools. $150,000. Ross & MacDonald, Belmont St., Montreal, archts.

Ont., London—Exchange—See "Unclassified."

Ont., Ottawa—Convent—Notre Dame Convent, Gloucester St., soon takes bids rein.-con., brick and stone addition, plain foundation, Gloucester St. $200,000. Brodeur & Pilou, Natl. Bank Bldg., Rideau St., archts.

Ont., Schreiber—Station and Roundhouse—Canadian Pacific Ry., Windsor St., Montreal, Que., soon takes bids station and roundhouse here. $225,000. A. McConnell, North Bay, engr.

Ont., Toronto—Office—Imperial Life Assurance Co., 34 Victoria St., having plans prepared by Dowswell & Dolphin, 58 Wellington St., 8 story and basement, 40 x 100 ft. rein.-con., brick and steel, plain foundation, Victoria St. $300,000.

B. C., Vancouver—Bank—Bank of Montreal, 109 James St., Montreal, Que., having plans prepared by K. Rea, Beaver Hall Hill, Montreal, Que., and takes bids about Apr. 21, 3 and 4 story, 70 x 100 ft. rein.-con., brick and stone, Granville St. $500,000.

B. C., Vancouver—University—University of British Columbia, 10th and Willow Sts., having plans prepared by J. H. Whittaker, Dept. Pub. Wks., six 2 story frame and stucco buildings, $600,000.

BIDS DESIRED

N. Y., Buffalo—Bank and Office—Apr. 4, by A. C. Bossom, archt. and engr., 680 5th Ave., New York City, 24 story, 60 x 350 ft., brick, steel and stone, Main and Court Sts., here, for Liberty Bank. $2,000,000. Noted Dec. 6.

N. Y., Canton—County—Apr. 1, by St. Lawrence Co., brick, stone, concrete and steel. $150,000-$170,000. S. P. Williamson, Ogdensburg, archt.

N. Y., Dolgeville—School—Apr. 4, by Bd. Educ., brick, steel and stone, plain foundation, South Main St. $200,000. Tooker & Marsh, 101 Park Ave., New York City, archts. and engrs. Noted Feb. 28.

N. Y., Dunkirk—High School—Apr. 9, by Bd. Educ., 3 story and basement, 190 x 210 ft., rein.-con., brick and stone. $500,000. E. E. Joralemon, 482 Delaware Ave., Buffalo, archt. Noted Mar. 6.

N. Y., Le Roy—School—Apr. 10, by Bd. Educ., 2 story and basement, 140 x 162 ft., rein.-con., brick and stone. $255,000. Tooker & Marsh, 101 Park Ave., New York City, archts. Noted Nov. 29.

N. Y., Long Island City—Apartment—Peter Guthy (owner and builder), 852 Monroe St., Brooklyn, will award separate contracts 4 story, brick, steel and stone, plain foundation, Academy St., here. $250,000. L. Allmendingir, 20 Palmetto St., Brooklyn, archt.

N. J., Woodbury—County—Apr. 15, by Bd. Freeholders Gloucester Co., 3 story, stone and rein.-con. $300,000. C. R. Peddle, 134 South 4th St., Phila., archt.

Pa., Phila.—Office—Mar. 31, by L. Rothschild, archt., 215 South Broad St., 10 story and basement, 60 x 100 ft., rein.-con., limestone and brick, plain foundation, Sydenham and Locust Sts., for C. Kahn, Morris Bldg. $500,000. Noted Feb. 14.

Pa., Windber—High School—Apr. 8, by Bd. Educ., 1423 Graham Ave., 3 story and basement, 110 x 130 ft. concrete, brick and steel, 23rd St. $175,000. H. W. Reinhold, Jr., 1513 Walnut St., Phila., archt.

La., Monroe—School—Ouachita Bd. Educ. taking bids and opens same Apr. 1, 3 story and basement, rein.-con. and brick, Grand St. $300,000. J. W. Smith, Monroe, archt.

La., New Orleans—Hospital—Apr. 19, by F. W. Evans, vice-pres. Bd. Directors Charity Hospital, Tulane and Villere Sts., 4 story, 57 x 105 ft. fireproof. Favrot & Livaudais, Hibernia Bank Bldg., archts.

O., Cleveland—Apartment—F. Mintz, 740 East 90th St., taking bids 3 story and basement, 53 x 130 ft., brick, 1923 East 23rd St. $150,000. M. Weis, 617 Union Bldg., archt.

O., Parma (Berea P. O.)—Schools—Apr. 5, by Bd. Educ., three 1 story, brick, steel and concrete additions. $197,000. C. W. Bates, 77 12th St., Wheeling, W. Va., archt. Noted Mar. 13.

O., Steubenville—Theatre and Store—Apr. 10, by Tri-State Amusement Co., 3 story, 80 x 100 ft., rein.-con. and brick, plain foundation. $500,000. Lieberman & Hein, 190 North State St., Chicago, engr. C. C. and E. A. Weber, 148 Ingalls Bldg., Cincinnati, archts. B. L. Batey, Steubenville, associated archt. Noted Feb. 7.

Ind., Michigan City—Hospital—D. X. Murphy & Bro., archts., Louisville Trust Bldg., Louisville, Ky., taking bids and open same about May 15 (extended date), 3 story addition to hospital, for St. Anthonys Hospital, here. $150,000. Noted Mar. 6.

Mich., Alpena—High School—Apr. 1, by G. H. Nicholson, secy. Bd. Educ., 2 story and basement, 70 x 130 ft. rein.-con., brick and steel addition, plain foundation. $150,000. Warren Holmes-Power Co., Tussing Bldg., Lansing, archts.

Mich., Detroit—Office—Donaldson & Meier, archts., 1314 Penobscot Bldg., taking bids and opens same about Apr. 7, 8 story and basement, 50 x 120 ft. rein.-con., brick, steel and stone, plain foundation, Washington Blvd., for M. J. Gallagher, 1230 Washington Blvd. $300,000. Noted Dec. 6.

Mich., Detroit—School—Mar. 31, by C. A. Gadd, business mgr. Bd. Educ., 2 story and basement, 83 x 163 ft. rein.-con., brick and steel, plain foundation, Garden Ave. $175,000. Malcomson & Higginbotham, Industrial Bank Bldg., archts.

Mich., Detroit—School—Apr. 3, by C. A. Gadd, business mgr. Bd. Educ., 2 story and basement, 150 x 184 ft. rein.-con. brick and steel, plain foundation, Beaumont Ave. $300,000. Malcomson & Higginbotham, Industrial Bank Bldg., archts.

Mich., Flint—High School—Apr. 4, by A. J. Wildanger, secy. Bd. Educ., 4 story, 65 x 150 ft., 71 x 160 ft. and 104 x 110 ft. rein.-con., brick and steel, plain foundation, Crapo Ave. $750,000. Malcomson & Higginbotham, 904 Flint P. Smith Bldg., archts.

Ill., Chicago—Bank—A. S. Alshuler, archt., 28 East Jackson St., taking bids 2 story, 75 x 160 ft., fireproof, Roosevelt and Halsted Sts., for Schiff T & S Bank, Roosevelt and Halsted Sts. $150,000.

Wis., Bloomington—School—Bd. Educ. and E. Tough, archt., Washington Bldg., Madison, taking bids 2 story, 66 x 95 ft., brick, rein.-con. and stone, plain foundation. $150,000. Noted Dec. 27.

Wis., Green Bay—Office and Store—Oppenhamer & Obel, archts., Nicollet Bldg., taking bids 7 story and basement, 46 x 67 ft., brick and concrete, plain foundation, Cherry St., for H. Herrick, 200 North Washington St. $150,000.

Minn., Minneapolis—Administration—Apr. 8, by State Bd. Control, St. Paul, 4 story and basement, rein.-con., brick, tile and stone. $500,000. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt.

Tex., Dallas—Bank—Republic Natl. Bank, Main St. and Exch. Pl., taking bids structural steel for 20 story basement and sub-basement, 96 x 100 ft., steel, concrete and brick. C. D. Hill & Co., Central Bank Bldg., archts. R. O. Jamison, Southwestern Life Bldg., engr.

Colo., Denver—High School—Apr. 16, by Bd. Educ., Administration Bldg., 14th and Tremont Sts., 2, 3 and 4 story and basement, 280 x 417 ft., brick, terra cotta and stone, Detroit and Colfax Aves. $1,700,000. Noted Jan. 31.

Calif., Venice—Schools—Trustees Venice Union High School Dist. taking bids brick additions to mechanical arts building, gymnasium and junior high school. $155,000. Russell & Alpaugh, Story Bldg., Los Angeles, archts. Noted Dec. 6.

BIDS RECEIVED

N. J., Pensauken (Merchantville P. O.)—High School—A. Moses, archt., Temple Bldg., Camden, general contract 2 story

Buildings (Continued)

and basement, 157 x 259 ft., Junior high school, here, from G. W. Shaver & Son, Palmyra, $299,200, for Bd. Educ. Noted Feb. 21.

Md., Baltimore — High School — Bd. Awards, Mar. 19, 3 story and basement. Gwynns Falls Park, building complete, from Sinclair & Grigg, 17th and Lindly Sts., Phila., Pa., $1,219,000; building incl. heating only, from P. C. Streett Eng. Co., 406 St. Paul St., $1,075,000; heating and ventilating from Enterprise Steam and Hot Water Heating Co., 619 West Franklin St., $135,879. Noted Mar. 6.

La., New Orleans — School — Orleans Parish School Bd., 3 story 150 x 300 ft. rein.-con. and brick, Carrolton Ave. and Belfast St., from Roupich Constr. Co., Louisiana Bldg., $319,000. Noted Mar. 6.

Ky., Louisville — Office — Commonwealth Life Insurance Bldg., 5th St., 6 story and basement, 60 x 120 ft., 5th St., from J. M. Russell, M. E. Taylor Bldg. Est. cost $150,000. (Was $250,000, plans revised.) Noted Mar. 6.

O., Newark—School—Francis De Sales School, Mar. 18, 3 story and basement, from W. Jamison, Zanesville, $107,800. Noted Mar. 6.

Ind., Hammond—Hospital—D. X. Murphy & Bro., archts., Louisville Trust Bldg., Louisville, Ky., 4 story and basement, 46 x 288 ft., here, from Larson Danielson Constr. Co., La Porte, $288,000, for Franciscan Sisters of the Poor, Hammond. Archts. est. $300,000. Noted Mar. 6.

Minn., Minneapolis—School—Bd. Educ., Mar. 17, 2 story and basement, rein.-con., brick and tile, Dartmouth and Ontario Sts., general contract from Bracker Constr. Co., 638 Builders Exch. $126,792. Noted Feb. 28.

Minn., St. Paul—School—Dept. Educ., Mar. 18, 2 story and basement, rein.-con., brick and tile, North St. Anthony Park, general contract from N. P. Franson, 630 Endicott Bldg., $120,900. Noted Mar. 13.

CONTRACTS AWARDED

Vt., Middlebury—College—Building Com. Middlebury College, 3 new college buildings, to H. P. Cummings Co., 77 Summer St., Haverhill, Mass. To exceed $250,000.

N. Y., Belleville—School—Belleville Union Academy, general contract concrete, steel, brick and tile, to N. B. Hayes, 1115 Academy St., Watertown, $100,000. Noted Mar. 15, 1923.

N. Y., Brooklyn—Hospital—Lord & Hewlett, archts., 2 West 45th St., New York, 6 story, 225 x 300 ft., brick, steel and stone addition, plain foundation, Albany and Atlantic Aves., here, to W. L. Crow Constr. Co., 103 Park Ave., New York, for St. Johns Hospital. 1531 Atlantic Ave. Archts. est. $1,700,000. Noted Feb. 14.

N. Y., Great Neck—Club House—Lakeville Golf & Country Club, brick, steel and stone, plain foundation, to H. A. Harris Co., 16 East 43rd St., New York City. Archts. est. $150,000. Noted Mar. 6.

N. Y., New York—Office—See "Industrial Works."

N. Y., Palmyra — High School — Bd. Educ., brick, steel and stone, plain foundation, to H. J. Conrath, Erie, Pa. Archts. est. $325,000; heating and plumbing, to F. J. Lawrence, 130 Pine St., Corning, $44,500. Noted Feb. 7.

N. Y., Solus—School—Bd. Educ. general contract new school, to L. E. Genthner, 912 South Main St., East Rochester, $136,000.

N. J., Montclair—School—Bd. Educ., constructing Rand School, brick, steel and stone, plain foundation, Chestnut St., to J. S. and L. Carlson, Walnut St., $256,000. Noted Mar. 6.

N. J., Newark—Museum—City, 110 x 498 ft., brick, steel and stone, plain foundation, Washington and Plane Sts., to George A. Fuller, 949 Bway., New York City. Archts. est. $600,000. Noted Jan. 18, 1923.

Pa., Phila.—Dormitory, etc.—G. Weidener, Land Title Bldg., 1 and 2½ story, 60 x 420 ft. and 72 x 86 ft. brick dormitory and barn, plain foundation, Erdenheim, to D. W. Sperry, Heed Bldg. Archts. est. $150,000.

Pa., York — Hotel — Chamber of Commerce, 14 story and basement, 97 x 230 ft., Duke and Market Sts., to J. G. White Eng. Corp., 43 Exch. Pl., New York City, $2,500,000.

Va., Charlottesville—School—Bd. Educ., primary school, to Gooch-Williams & Co., Norfolk, $161,169.

Va., Richmond — Apartment — Stuart Circle Realty Corp., 9 story, rein.-con. and steel, Lombardy St. and Monument Ave., to Weller Constr. Co., 816 14th St., Wash., D. C., $650,000.

W. Va., Huntington—Bank and Office—Union Bank & Trust Co., 4th Ave. and 9th St., 14 story and basement, 60 x 90 ft., to G. A. Fuller Co., Fuller Bldg., New York. $500,000. Noted Feb. 14.

W. Va., Huntington—Office—Coal Exchange Building Co., 14 story and basement, 60 x 170 ft., 4th Ave. and 11th St., to Higginbotham & Jones, Chas. Natl. Bank Bldg., Charleston. $800,000. Noted Feb. 14.

Ala. Birmingham — School — St. Pauls Catholic Church, 2 story, 100 x 150 ft., brick and stone, 4th Ave., to Day & Sachs, 35th Ave and 26th St., $150,000.

La., Shreveport — Hospital — Tri-State Sanitarium, c/o T. E. Williams, 3 story, 66 x 80 ft. and 36 x 60 ft. rein.-con., brick and stone, general contract to Hinerman & Quillen, Shreveport. Noted Mar. 6.

Tenn., Memphis—Church Addition—First Methodist Church, North 2nd St. and Poplar Ave., 4 story, brick and stone, general contract to Estes-Williams & Ragsdale, Scimitor Bldg. Total est. $150,000. Noted Feb. 1.

O., Cincinnati — Office and Loft — L. Baker, 1605 Union Trust Bldg., 10 story, rein.-con. and brick, plain foundation, 9th and Sycamore Sts., to Ohio Building & Constr. Co., Burnet Ave., $1,250,000.

O., Cincinnati—Office—See "Industrial Works."

O., Cincinnati—Warehouse—Merkel Bros., Central Parkway and Jackson St., rein.-con., plain foundation, Marquis St., to Austin Co., 16112 Euclid Ave., Cleveland, $170,000.

O., Cleveland—Apartment—M. Duchon, 1077 Thornhill Dr., 3 story and basement, 37 x 145 ft., brick, East 93rd St., to Cooper & Berkowitz, 1064 Linn Dr. Archts. est. $150,000. Noted Jan. 31.

O., Cleveland—Dance Hall—I. Margolin, 2496 Derbyshire Rd., 1 story, 91 x 300 ft., brick and steel, 3629 Euclid Ave., to I. Narosny, 476 East 112nd St. Archts. est. $300,000. Noted Mar. 13.

O., Cleveland — Garage and Storage — Knutsen Motor Trucking Co., 1730 Oregon Ave., 1 story, 100 x 173 ft., brick and steel, East 21st St. and Oregon Ave., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $150,000.

O., Cleveland — Seminary — St. Marys Seminary, c/o J. Schrembs, bishop, 1007 Superior Ave., 3 story, brick, steel and concrete, Ansel Rd., to Schirmer-O'Hara Co., 2031 Euclid Ave. Archts. est. $850,000. Noted Mar. 20.

O., Cleveland Heights—Apartment—B. Bialosky, 2388 Ontario St., Cleveland, 3 story and basement, 52 x 132 ft., brick, 2057 Cornell Rd., here, to M. Berkoff, 3346 East 135th St., Cleveland. Archts. est. $150,000.

O., Dayton—Industrial and Store—Rubicon Realty Co., 226 South Ludlow St., 5 story and basement, 79 x 84 ft., rein.-con. and brick, plain foundation, Jefferson St., to Frank Hill Smith, Inc., Winters Bldg., $150,000.

O., Toledo—School—Bd. Educ., constructing Arlington School, 3 story and basement, rein.-con. and brick, plain foundation, Toronto Ave., to J. H. Berkebile & Sons, Bway., $324,619. Noted Mar. 20.

Mich., Bad Axe—School—Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, to Spence Bros., 1 Brewer Blk., Saginaw, $150,000. Noted Feb. 14.

Mich., Clawson—School—Bd. Educ., 2 story and basement rein.-con., brick and steel, plain foundation, Washington and Phillips Aves., to N. A. Starr, Royal Oak, $150,000.

Mich., Detroit—Apartment Hotel—H. C. Duffield, 2034 Dime Bank Bldg., 11 story and basement, 85 x 110 ft. rein.-con., brick and steel, plain foundation, 2nd Blvd., to Malow-Barry Co., 2631 Woodward Ave. Archts. est. $400,000.

Mich., Detroit — Bank and Office — A. Kahn, archt., 1000 Marquette Bldg., 5 story and basement, 65 x 81 ft. rein.-con., brick and steel, plain foundation, Griswold St., to W. E. Wood & Co., 1805 Ford Bldg., for Security Trust Co., 655 Griswold St., $400,000. Noted Jan. 31.

Mich., Detroit—Club and Hotel—Webster Hall Hotel Co., c/o Halpin & Jewell, archts., 1024 Hammond Bldg., 12 story and basement, 177 x 183 ft. rein.-con., brick, stone and terra cotta, Cass Ave., to Everett Winters Co., 1024 Book Bldg., $3,500,000.

Mich., Grosse Pointe Park (mail Grosse Pointe branch Detroit, P. O.)—School—C. A. Paye, secy. Bd. Educ., 2 story and basement, 65 x 164 ft. rein.-con. brick and steel, plain foundation, Kercheval Ave., to M. A. Mahoney, 400 Penobscot Bldg., Detroit, $250,000. Noted Mar. 6.

Mich., Ypsilanti—School—W. M. Derbyshire, secy. Bd. Educ., 3 story, 140 x 160 ft., rein.-con., brick and steel, plain foundation, to Spence Bros., 1 Brewer Blk., Saginaw, $172,500. Noted Jan. 31.

Wis., Green Bay—Y. M. C. A., 510 Minahan Bldg., 4 story and basement, brick and concrete, plain foundation, to Barteltson & Ness, Manitowoc Rd., $297,354. Noted Feb. 21.

Wis., Madison—Store—J. H. Bertrand, De Forest, 2 story, 57 x 61 ft., brick, rein.-con. and stone, plain foundation, State St., here, to A. Vorndran, 1836 Ray Ave. Noted Feb. 14.

Wis., Milwaukee—Church—St. Boniface Congregation, H. Stemper, pastor, 1118 Clarke St., superstructure, 2 story, 130 x 136 ft., brick and tile, to V. Pacholski, 941 Warren Ave. Foundation previously let. Noted Mar. 6.

Wis., Milwaukee—Clubhouse — Tripoli Country Club, 596 Summit Ave., 2 story, 90 x 202 ft., brick, plain foundation, Hopkins Rd., to H. Schmitt & Son, 430 Farwell Ave. Archts. est. $150,000. Noted Feb. 7.

Kan., Baldwin City—College—Baker University, 3 story, 62 x 100 ft., brick, concrete and stone science hall, to Brewster Bros., Independence. Archts. est. $250,000. Noted Jan. 3.

Kan., Leavenworth—City Hall—City, 2 story and basement, 90 x 125 ft., rein.-con., brick and stone, general contract, to R. B. Yoakum, 515 Delaware St., $118,580. Noted Feb. 28.

Neb., Falls City — Hotel — Falls City Realty Co., c/o E. H. Towle, secy., 4 story and basement, 92 x 130 ft., brick and stone, 18th and Stone Sts., general contract to Bohrer Constr. Co., Falls City, $125,000. Noted Feb. 21.

Mo., Hannibal—School—Bd. Educ., North School, 2 story and basement, 125 x 140 ft., rein.-con., brick and stone, to Murch Bros. Constr. Co., Ry. Exch. Bldg., St. Louis, $175,898. Noted Nov. 22.

Mo., St. Joseph—Administration, Warehouse, etc.—Missouri Rubber Products Co., general contract 1 and 2 story, brick and concrete administration building, warehouse and factory unit, to E. H. Lawson Constr. Co., St. Joseph. Archts. est. $500,000.

Mo., St. Joseph — Apartment — Local syndicate, 3 story and basement, 150 x 177 ft., rein.-con., brick and stone, to Construction Service Co., 1604 South 22nd St., $300,000.

Mo., St. Louis—Apartment—Oleo Investment Co., 808 Chestnut St., 3 story and basement, 140 x 155 ft., rein.-con., brick and stone, Cabanne and Goodfellow Sts., to V. A. Chinberg, 808 Chestnut St. Archts. est. $150,000.

Tex., Brownsville—Hotel—International Amusement Co., Little Rock, Ark., 5 story, 90 x 180 ft., rein.-con., brick and stone, plain foundation, here, to E. E. Jochem, Brownsville, $450,000.

Tex., San Antonio—Church and School—Mt. Zion 1st Baptist Church, 1216 Nebraska St., 1 story, 85 x 136 ft., rein.-con., brick and stone, plain foundation, Nebraska and Hackberry Sts., to H. W. Hawkins, 133 North Mesquite St., cost plus percentage basis. Archts. est. $150,000.

Okla., Tulsa—Church—First Presbyterian Church, 7th and Boston Sts., 4 story and basement, brick, stone and rein.-con., to J. W. Vanhorn, 7th and Detroit Sts., $315,000. Noted Oct. 23.

Calif., Los Angeles—Store and Loft—D. N. and E. Walter & Co., 763 South Los Angeles Ave., 6 story and basement, 87 x 107 ft., rein.-con. and brick, 8th and Wall Sts., to H. M. Baruch, 441 I. W. Hellman Bldg., $160,000.

Que., Three Rivers — Warehouse — Canadian Pacific Ry., rein.-con. warehouse on St. Maurice St., here, to D. G. Loomis & Sons, 1112 St. Patrick St., Montreal, $150,000.

Federal Government Work

PROPOSED WORK

Pa., Pittsburgh — Dump Scows — U. S. Engineer plans to purchase 2 steel dump scows.

Ky., Uniontown—Yellow Pine—U. S. Engineer, P. O. Box 72, Louisville, in market

Federal Government Work (Continued)

soon for 120,000 ft. yellow pine No. 2 common, for Dam 49, Ohio River.

O., Cincinnati—Dwellings—U. S. Engineer, plans permanent lock keepers dwellings at Dams 34, 36 and 38, Ohio River.

O., Cincinnati—Machinery—U. S. Engineer, Cincinnati, plans to install machinery for power houses on Dams 34, 36 and 38, Ohio River.

O., Huron — U. S. Engineer, Buffalo, N. Y., plans to replace with concrete superstructure, present 1,200 ft. timber superstructure on West Pier in Huron Harbor.

Minn., Duluth—Dump Scow—U. S. Engineer, rejected bids Feb. 28, one steel dump scow. Noted Mar. 13.

BIDS DESIRED

N. Y., New York—Dredging—Apr. 14, by U. S. Engineers, 2nd Dist. 616 Army Bldg., dredging at Shoal Harbor, Compton Creek and Keyport Harbor, N. J.

Del., Wilmington — Stone — Apr. 14, by U. S. Engineer, War Dept., Wash., D. C., furnishing 25,000 tons stone at Reedy Point.

Fla., Jacksonville—Bulkhead and Pier—U. S. Engineer, taking bids and opens same about Apr. 28, bulkhead and 300 ft. pier at dredge depot here.

Miss., Water Valley—Post Office—Apr. 22, by Treasury Dept., office of Supervising Architect, Wash., D. C., 2 story, 45 x 67 ft., here; adv. E. N.-R. Mar. 27.

Tenn., Memphis—Oil Burning Furnaces—Apr. 7, by Mississippi River Comn., 1st and 2nd Dists., Room 1006 McCall Bldg., Memphis, oil burning furnaces installations, complete; adv. E. N.-R. Mar. 27.

Ky., Fords Ferry—Lock—Apr. 25, by U. S. Engineer, P. O. Box 72, Louisville, constructing Lock 50, Ohio River, near here; adv. E. N.-R. Mar. 27.

Ky., Fords Ferry—Walls—Apr. 29, by U. S. Engineer, P. O. Box 72, Louisville, 110 x 600 ft. lock and guide walls for Ohio River dam 50, 35,000 cu.yd. concrete.

Mont., Poplar—Sewers—Apr. 14, by Dept. Interior, Office of Indian Affairs, Wash., D. C., sewer system for Fort Peck School, here.

Wash., Puget Sound—Ammunition Depot—Apr. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., ammunition depot-subsurface magazine, here.

BIDS RECEIVED

Pa., Dubois—Post Office—Superv. Archt., Treasury Dept., Wash., D. C., constructing post office here, from W. MacDonald Constr. Co., Odd Fellows Bldg., St. Louis, Mo., $57,876. Noted Feb. 28.

Pa., Phila.—Foundations—Bureau Yards & Docks, Navy Dept., Wash., D. C., permanent foundations for frame buildings at hospital, here, from Kaufman Constr. Co., 219 North Amer. Bldg., (1) $4,337 (2) deduct $200 (3) deduct $1,900 (120 days). Noted Mar. 6.

D. C., Wash.—Excavation—Office Pub. Building and Grounds, excav. 8,200 cu.yd. earth from Meridian Hill Part, to W. F. Cush, Inc., 3rd and R Sts., Wash., $6,068.

D. C., Wash.—Reservoirs—U. S. Engineer, 250 Old Land Office Bldg., Wash., D. C., (1) 1st high reservoir (2) 2nd high reservoir, from Parsons & Hyman, Inc., Equitable Bldg., (1) $268,490 (2) $273,080, total $541,570; M. I. O'Connor, Northampton, Mass., (1) $284,956 (2) $262,813, total $547,769. Noted Feb. 21.

Va., Hampton Roads—Breakwater Pier—Spec. 4944—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to north breakwater pier at naval operating base, from Alsop & Pierce, Newport News, Va., (1) $11,930, 90 days (2) add $0.80 deduct $0.45, (3) add $1.10, deduct $0.68. Noted Mar. 6.

Ala., Florence—Turbines—U. S. Engineer Office, Florence, furnishing 4 hydraulic turbines for Wilson Dam, from Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $103,850. Noted Jan. 17.

Texas—Dredging—U. S. Engineer, Galveston, dredging Sabine-Neches Waterway, 165,000 cu.yd. excav., from Gulf Refining Co., Port Arthur, $0.395 per cu.yd. Noted Feb. 7 under "Galveston."

CONTRACTS AWARDED

Mass., Plymouth—Dredging—U. S. Engineer, 13th floor Custom House, Boston, dredging in Plymouth Harbor, here to Bay State Dredging & Constr. Co., 62 Condor St., Boston, Mass., $98,083. Noted Mar. 6.

W. Va., Huntington—Steel Boat Hull—U. S. Engineer, Huntington, steel quarter boat hull for Ohio River, to Charles War

DRAINAGE—ST. LOUIS, MO.

Following are lowest three bids opened by city, Jan. 29, for Sect. A of River Des Peres Drainage Project, (A) Higgins-Wall-Dyer Co., International Life Bldg., (awarded contract); (B) J. J. Dunnegan, Arcade Bldg.; (C) G. G. Prendergast & Co. The unit bids were as follows:

	A	B	C
Tyler Ave. Bridge (lump sum)	$3,087.00	$6,000.00	$2,500.00
Continuing sanitary sewer (lump sum)	12,000.00	5,000.00	3,000.00
3,400 cu.yd. class A excavation	6.00	3.00	6.00
210,700 cu.yd. class B excavation	.50	.60	.80
5,657 lin.ft. channel lining	22.00	32.00	27.00
5,657 lin.ft. sanitary sewer	8.60	12.00	11.00
20 cu.yd. excavation for underpinning	4.00	5.00	10.00
20 cu.yd. concrete for underpinning	25.00	25.00	40.00
510 lin.ft. 12 in. sewer pipe	.70	1.50	1.00
185 lin.ft. 15 in. sewer pipe	.90	2.00	2.00
30 lin.ft. 18 in. sewer pipe	1.25	2.50	3.00
55 lin.ft. 21 in. sewer pipe	2.00	3.00	4.00
195 lin.ft. 84 in. circular brick pipe	14.00	18.00	30.00
10 pieces 12 in. curved pipe	2.40	3.00	4.00
15 pieces 15 in. curved pipe	3.00	5.00	7.00
7 pieces 12 in. junction sanitary pipe	1.50	3.00	5.00
4 pieces 15 in. junction sanitary pipe	2.00	5.00	8.00
6,900 sq.ft. extra channel lining	.40	.50	.50
975 cu.ft. brick masonry in manholes	.80	.65	1.00
4,025 lb. cast iron manholes	.08	.06	.08
455 lb. wrought iron manholes	.10	.10	.10
5 M.ft. b.m. lumber left in trench	60.00	50.00	100.00
75 tons hydrated lime	30.00	25.00	25.00
Extended totals	$324,452	$408,630	$424,811

Eng. Wks., Charleston, W. Va., $10,420. Noted Jan. 31.

Ky., Owensboro—Soft Steel Bars—U. S. Engineer, P. O. Box 72, Louisville, 6,000 soft steel bars, to Woodward Wight & Co., Howard and Constance Sts., New Orleans, $2.85 per cwt.

Mo., Kansas City—Post Office—U. S. Treasury Dept., Wash., D. C., additions to post office here, 4 story and basement, two wings 67 x 74 ft. rein.-con. and stone, to Devault & Deitrich, Canton, O., $303,933. Noted Feb. 28.

Calif., Mare Island—Riprapping—Spec. 4941—Dist. Pub. Wks. Officer, Navy Yard, Mare Island, riprapping longitudinal dike, to Healy Tibbits Constr. Co., 64 Pine St., San Francisco, $1.83 per ton. Noted Feb. 28.

Unclassified

PROPOSED WORK

Park—Trenton, N. J.—City plans North Trenton Park. $40,000. Black, Burris & Fiske, 3 West Front St., archts.

Seawall and Roadway—Tampa, Fla.—Apr. 22, $250,000 bonds, for sea wall and roadway. R. D. Martin, city engr. Noted Jan. 3.

Wharves, etc.—Tampa, Fla.—Apr. 22, $75,000 bonds, for wharves and sheds; also $100,000 bonds improving fire alarm system. R. D. Martin, city engr. Noted Jan. 3.

Power Line—Wisconsin—Wisconsin Valley Electric Co., 507 Main St., Stevens Point, plans high voltage power line to Merrill, also 3 sub-stations and equipment. $80,000. Engineer not selected.

Power and Water Supply Development—Los Angeles, Calif.—Election in June $38,000,000 bonds, incl. $8,000,000 for water department, $24,000,000 development for electrical system and $6,000,000 for steam power generating plant. J. A. Griffin, city engr.

Tunnel—British Columbia—British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, takes bids about Apr. 20, boring tunnel 15 x 15 ft. x 3,361 ft. long, from Stave Lake to Alouette Lake. $500,000. J. I. Newell, c/o owners, engr.

Electric Light Lines — London, Ont. — London Suburban Hydro System, Dominion Savings Bldg., having plans prepared extending lines, 20 mi. $100,000. R. E. Hughes, c/o owner, engr.

Telephone Lines, etc.—London, Ont.—Bell Telephone Co. having plans prepared extending telephone lines and building new exchange. $600,000. C. H. Beard, mgr.

BIDS DESIRED

Fire Alarm System—New York, N. Y.—Apr. 2, by Dept. Pub. Welfare, Municipal Bldg., local fire alarm system in New York City Childrens Hospital and Schools Dist., Randalls Island. B. S. Coler, comr.

Electric Light System—Phila. Pa.—Apr. 8, by G. H. Biles, dir. Pub. Wks., and Bd. Trustees Free Library, Room 216 City Hall, electric light, power and signal system in library, Vine, 20th, Wood and 19th Sts.; adv. E. N.-R. Mar. 27.

Fire Alarm System, etc.—Phila. Pa.—Apr. 2, by S. D. Butler, dir. Dept. Pub. Safety, Room 215, City Hall, fire alarm registers and equipment $42,500, fire alarm signal boxes $15,000, fire alarm transmitters $12,500, cables for extension of fire alarm and patrol signal service $23,500, electrically operated automatic police signal system $75,000, four 415 hp. boilers, equipment for burning fuel oil (for fire room City Hall) and fuel oil equipment for 2 boilers, etc. $130,000.

Turbine—Prince Albert, Sask.—May 15, by E. F. Webb, city clk., 1,500 kw. steam turbine generator and condenser; adv. E. N.-R. Mar. 27.

BIDS RECEIVED

Sanitary Work, etc.—Binghamton, N. Y.—State Hospital Comn., Albany, Mar. 12, renewal of water line at State Hospital, here, from Suburban Eng. Co., 15 West 38th St., New York, $14,946; plumbing and sewage disposal at Plymouth Rock Farm Cottage, here, from A. Auchinachie, Binghamton, $6,400. Noted Feb. 21.

Tunnels, etc.—Sonyea, N. Y.—P. L. Lang, pres. Bd. Mgrs. Craig Colony, Mar. 11, tunnels and bridge, for Village Flora Group, School and Laundry, from C. Curry, 40 Ossian St., Dansville, $44,540; underground heating work in above, from J. W. Danforth Co., 70 Elct. St., Buffalo, Proposal 1, $52,693, Proposal 2, $41,462. Noted Feb. 28.

CONTRACTS AWARDED

Subway Entrance—New York, N. Y.—Transit Comn., 49 Lafayette Ave., additional entrance to Mott Haven Station of 7th Ave.-Lexington Ave. Rapid Transit R.R., Mott Ave. and 138th St., Bronx Boro, Agreement "CB," to Pattelli & Wilson, $15,435. Noted Mar. 20.

Grandstand, etc.—Detroit, Mich.—G. W. Dickinson, secy. mgr. Michigan State Fair Assn., 815 Farwell Bldg., rein.-con. and steel addition to grandstand and bleacher, 341 ft. long, 32 ft. high 96 ft. wide, also wall 403 ft. long, 12 ft. high, remodeling cattle barn and building addition to auto shed, brick and steel, to Bryant & Detwiler Co., 2336 Dime Bank Bldg., $150,000. Noted Jan. 31.

Material and Equipment

PROPOSED WORK

Dredges, etc.—Buffalo, N. Y.—Preparing specifications 1 sucker and 1 dipper dredges, 6 dump scows and 2 tugs. $600,000. C. E. P. Babcock, Municipal Bldg., engr.

Snow Plow, etc.—Little Falls, N. Y.—Common Council and City Eng. Dept. plan to purchase snow plow and tractor. $3,500-$4,000.

Sand Grit, etc.—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids 5,000 cu.yd. sand grit or broken stone chips. Noted Mar. 13.

Street Roller, etc.—Madison, Wis.—City, c/o P. H. Walsh, supt. streets, plans to purchase steam street roller and scarifier. Engineer not selected.

Road Oil—Racine, Wis.—Bd. Pub. Wks., J. W. Beaugrand, city engr., soon takes bids 130,000-140,000 gal. road oil having from 55 to 60 per cent asphaltic content.

Cables, etc.—Athens, Tex.—Athens Telephone Co. had plans prepared cables, wire, poles and other equipment for extensions. $100,000.

Materials and Equipment (Continued)

BIDS DESIRED

Concrete Mixer—Buffalo, N. Y.—J. Pinzhofer, 186 East Ferry St., in market small concrete mixer with gasoline motor.

Excavator Skimmer—Buffalo, N. Y.—Apr. 4, by City, City Hall, 1 traction excavator skimmer. J. H. Meahl, city comr.

Snow and Street Sweepers—Buffalo, N. Y.—Apr. 2, by W. F. Schwartz, comr. Pub. Wks., Municipal Bldg., 6 combination rotary snow and street sweepers with turbine blades; 4 swivel-head combination snow and street sweepers equipped with turbine blades and ice saws; 4 side discharge snow trailers; 4 snow loaders; one 10 ton and one 5 ton tractors.

Asphaltic Cement, etc.—St. George, N. Y.—Apr. 2, by J. A. Lynch, pres. Richmond Boro, 225 tons asphaltic cement, 900 cu. yd. asphalt sand, and 1,425 cu.yd. broken stone screenings 12-12, at asphalt plant of Bureau of Highway, north side of Richmond Terrace near Taylor St.; 100,000 gal. bituminous road surfacing material, tar, for cold application, in tank cars at any railroad station; 1,600 cu.yd. 1½ in. and 450 cu.yd. ¾ in. broken stone, 8-8, 450 cu.yd. broken stone screenings, 8-8, also 1,050 cu.yd. pea gravel in Dist. 1; 3,400 cu.yd. 1½ in. and 70 cu.yd. ¾ in. broken stone, 8-8, 100 cu.yd. broken stone screenings, 8-8, also 1,450 cu.yd. pea gravel, in Dist. 2; 2,700 cu.yd. 1½ in. and 90 cu.yd. ¾ in. broken stone, 8-8, 50 cu. yd. broken stone screenings, 8-8, also 1,500 cu.yd. pea gravel in Dist. 3.

Bituminous Materials, etc.—Phila., Pa.—Mar. 28, by E. J. Lafferty, purch. agt., Room 312, City Hall, 400,000 gal. bituminous materials, Class 176; 320 items of steam fitters, materials and plumbers' supplies, Class 175; 45 tons gravel Class 179; 4 Fordson tractors, Class 181.

Lighting Standards—Cleveland, O.—Apr. 4, 900 white way lighting standards.

Dump Bodies—Ligonier, Ind.—Highway Iron Products Co. in market for 20 dump bodies for trucks.

Road Oil, etc.—St. Paul, Minn.—Apr. 1, by H. W. Austin, purch. agt., furnishing 700,000 gal. road oil for Dept. Pub. Wks., 10,000 gal. road oil for Dept. Parks, Playgrounds and Public Buildings, 8,578 lb checkered steel floor plates and 12,649 in. structural steel and castings for Water Dept. G. M. Shepard, city engr.

Grader—Huron, S. D.—Apr. 1, by A. J. Holbrock, aud. Beadle Co., 1 elevating grader.

Grader—Devils Lake, N. D.—Apr. 3, by J. A. Kramer and Ramsay Co., one elevating grader with engine hitch and rigid disc plow and carrier, 40 ft. wide, 18 ft. long.

Scrapers and Graders, etc.—Washburn, N. D.—Apr. 1, by McLean Co., furnishing six 9 ft. drag scrapers, six 5 ft. extra heavy fresnos, 6 patrol graders, 2,664 lin. ft. 12-24 in. corrugated metal culverts.

Pipe—Dallas, Tex.—Apr. 1, by City Com., 200 tons 6 in. and 80 tons 10 in. Class B c.i. pipe, 50 tons Class D fittings, 18 tons pig lead. E. A. Kingsley, city engr.

Roller—Dallas, Tex.—Taking bids one 4 ton roller with maintenance trailer. E. A. Kingsley, city engr.

Cement, etc.—Tyler, Tex.—Apr. 7, by Comrs. Smith Co., 7,500 bbl. cement, 5,000 cu.yd. crushed stone or gravel, 3,000 cu. yd. sand for concrete. $35,000. D. K. Caldwell, co. engr.

Electrical Equipment—Tacoma, Wash.—Apr. 23, at office I. S. Davisson, comr. of light and water, electrical equipment for Cushman Power Project; adv. E. N.-R. Mar. 27.

BIDS RECEIVED

Concrete Mixer—East Cambridge (Boston P O.) **Mass.**—Eastern Cast Stone Co., 9 Binney St., in market for concrete mixer, 10 cu.ft.

Coal Tar Material—Cincinnati, O.—Mar. 27, at office of E. Von Bargen, city purch. agt., City Hall, 200 tons coal tar road binding material to Street & Sewer Repair Dept.

Road Graders—St. Paul, Minn.—Mar. 31, by G. J. Ries, aud. Ramsey Co., one 12-ft. heavy dirt road grader and one 8-ft. road grader with roller bearings. P. N. Coates, 900 Guardian Life Bldg., co. surv.

Pipe—Glendale, Calif.—City, (1) 18,000 ft. 4 in. (2) 18,000 ft. 6 in. (3) 12,000 ft. 8 in. (4) 7,000 ft. 12 in. Class B c.i. pipe (5) 50 tons Class D c.i. fittings, from T. Haverty Co., 8th and Maple Sts., Los Angeles (1) $57.86 ton (2) $56.[illegible] (3) $55.56 (4) $55.56; Natl. Cast Iron Pipe Co., Bartlett Bldg., Los Angeles (1) $66.26 (2) $62.26 (3) $61.26 (4) $61.26 for 12 ft. lengths and (1) $67.26 (2) $63.26 (3) $62.26 (5) $124.26 for 4 in. fittings and $114.26 for 6 and 12 in. fittings; Pacific Pipe & Supply Co., 1002 Santa Fe St., Los Angeles (bid per ft.) Belgian pipe (1) $0.54 (2) $0.922 (3) $1.322 (4) $2.294, British pipe (1) $0.53 (2) $0.8558 (3) $1,2404 (4) $2,1448, European standard pipe (1) $0.5042 (2) $0.8140 (3) $1.1745 (4) $2,0376 (5) $105 ton; United States Cast Iron Pipe & Fdry. Co., Wright-Callendar Bldg., Los Angeles (bids per ft.) (1) $0.7324 (2) $1.0573 (3) $1.5081 (4) $2.6067 (5) $124.50 ton for 4 in. and $114.50 per ton for 6 in. fittings; Amer. Cast Iron Pipe Co., 439 East 3rd St., Los Angeles (5) $0.05 per lb. for all fittings; Grinnell Co. of the Pacific, 439 East 3rd St., Los Angeles, for Belgian pipe (bids per ton) (1) $51 (2) $57 (3) $57 (4) $57 (5) $105 for all fittings. Noted Mar. 13.

CONTRACTS AWARDED

Cement, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, 10,000 bbl. Portland cement, to E. E. Buhler Co., 103 Park Ave., New York, $27,686; 7,000 cu. yd. steam ashes, to Hygrade Builders Supply Co., 6th St. and 2nd Ave., $8,680. Noted Mar. 13.

Broken Stone—Long Island City N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 21,000 cu.yd. broken stone, to McGirr Bros., Inc., 461 8th Ave., New York, $2.11 per cu.yd. Noted Mar. 13.

Rip Rap—Scotia, N. Y.—R. K. Fuller, comr. Canals & Waterways, Albany, Mar. 11, rip rap at Movable Dam 4, here. Contr. 215, to Amer. Pipe & Constr. Co., 20 Market St., Amsterdam, $15,957. Noted Feb. 14.

Tar, etc.—Trenton, N. J.—Mercer Co. 234,667 gal. tar and 13,000 tons slag and crushed pebbles, to T. Tobish, Amer. Mechanic Bldg., $69,505. Noted Mar. 6.

Cement—Sheboygan, Wis.—For 30,000 bbl. cement: to Hildebrand Supply Co., 711 North 15th St., Pantzer Lumber Co., Sheboygan, Roth Building Co., Sheboygan, and H. Scheels, Sheboygan, all bid $2.99. Noted Feb. 7.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: April 14.

Road Work

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Bids will be received at the office of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, April 14th, 1924, at the hours named below and will be opened and read immediately thereafter.

BIDS AT 12:00 NOON (STANDARD TIME)

Construction of Route No. 6, Section No. 13, Bridgeton to Marlboro, in the County of Cumberland. Estimated 67,905 sq.yds. reinforced concrete pavement; 33,380 sq. yds. Gravel Shoulders.

BIDS AT 12:10 P.M. (STANDARD TIME)

Construction of Route No. 9, Section No. 12, Plainfield-Westfield, in the County of Union. Estimated 29,505 sq.yds. reinforced concrete pavement.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10.00) for each project upon application to the State Highway Department, 9th floor, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the 1924 specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and name and section of the route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

OFFICIAL PROPOSALS

Bids: April 15.

Paving

Pottsville, Pa.

Sealed proposals will be received by the City Council of Pottsville, Pa., up to 7:00 o'clock p.m., Eastern Standard Time, of April 15, 1924, for paving and improving several streets of the City.

The work proposed consists of laying approximately thirty-five thousand (35,000) square yards of street paving on a concrete base with necessary grading, adjustment of curbs, etc., on four separate streets.

Bidders may examine the plans and obtain a printed copy of the specifications on application to the City Engineer and depositing five dollars ($5.00). The deposit money will be returned on the return of the specifications in good condition with a bona-fide proposal for the work accomplished.

The City Council reserves the right to reject any or all bids or parts of bids.

JOHN H. STRAUCH,
City Engineer.

March 24, 1924.

OFFICIAL PROPOSALS

Bids: April 10.

Road Work

Woodbury, N. J.

Notice is hereby given that sealed bids will be received by the oard of Chosen Freeholders of the County of Gloucester for the construction of Woodbury-Blackwood Road, Section No. 2 in the Townships of Deptford and Washington in the County of Gloucester, with a cement concrete pavement, estimated amount of concrete pavement required is 27,578 square yards, and opened and read in public at Court House, Woodbury, N. J., on Thursday, April 10th, 1924, at 11.00 a.m., Standard Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by William C. Cattell, County Engineer, have been filed in the office of the said engineer at Merritt Building, Woodbury, N. J, and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to The Board of Chosen Freeholders of the County of Gloucester and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders of the County of Gloucester.

CHESTER N. STEELMAN,
Clerk.

WILLIAM C. CATTELL,
County Engineer.